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# The Iowa Spelling Scales

## Their Derivation, Uses, and Limitations

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**E. J. A.**

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## INTRODUCTION

The Iowa Spelling Scales have been extensively used. The relatively large number of words included in them and their freedom from excessive statistical manipulation have rightly commended them to practical workers. They have, however, been out of print for some time. Moreover, even those who are fortunate enough to possess the scales in their original form no doubt realize that they are capable of a more useful presentation.

Accordingly this monograph is offered for those who desire a complete representation of the scale in permanent form. The percents of correct spellings in each grade are given for each of the nearly 3,000 words of the scale. Nowhere else has such a detailed showing of the difficulty of the spelling of words been made.

An account is also given of the derivation of the scale; and this is no inconsiderable contribution. The reader will no doubt be impressed by the author's scientific attitude and by his unwillingness to compromise with his ideals of accuracy through adopting all-too-prevalent devices for smoothing out difficulties and then pretending that such difficulties do not exist.

We are glad to observe the position which Doctor Ashbaugh takes on the question of the degree of difficulty of the words which constitute the best testing material. In substance he says that the nearer they are to 50 percent accuracy for the grade in question the better. There has been a strong tendency among users of spelling tests to select words which were much too easy. This tendency has been fostered partly by the fact that the Ayres Scale lists for each grade only the words spelled by 50 percent or more of the children, and partly by the naive desire to see larger figures. Somehow one thinks more highly of a class average of 87 than of one of 46, although the latter may indicate a better performance.

The publication of the Iowa Spelling Scales in this form will place at the disposal of school people a far larger number of evaluated words than have hitherto been generally available. This richness of material will greatly enhance the usefulness of the scale. Duplicate lists can easily be made, and a prolonged program of testing can be carried on without the necessity of making allowance for practice effects. Moreover, the fact that the words of the scale are selected on the basis of frequency of use in correspondence renders the material particularly appropriate for teaching and drill purposes. In fact as a spelling book this monograph has high value. The appropriateness of the words is assured because of their frequent use in correspondence—that is, in the only situation where spelling ability is sure to be required—while the known difficulty of the words permits intelligent grading and distinctions in teaching emphasis.

B. R. BUCKINGHAM, *Editor*.





## **SECTION I**

### **INTRODUCTION**

#### **FIELDS OF EXPERIMENTAL PEDAGOGY**

The last two decades have witnessed a large amount of work in the field of experimental pedagogy. This has principally followed three general lines, namely, (1) the selection of subject matter, (2) the determination of efficient methods of teaching or learning, and (3) the formulation of more or less objective measures for checking the results.

The Committee on Economy of Time of the National Education Association through its three reports (1) has done a large amount of work in the selection of subject matter. These reports have challenged the attention of superintendents and the recommendations have been written into numerous courses of study. State Teachers' Associations have taken up the work; their committees have attacked the problem and in many cases have added something to this re-direction of education.

The determination of efficient methods of teaching and learning has appealed to psychologists and teachers. In laboratories and experimental schools much time and effort has been spent in gathering bit by bit the evidence for the different subjects. The experimental evidence in reading, writing, spelling, arithmetic, drawing, and music, and such conclusions as are warranted thereby, have been collected from the various schools and are presented by another committee in the Eighteenth Yearbook. (2) Further consideration will not be given to this field since it is not pertinent to the research in this monograph.

The effort in the third line has brought forth the large number of scales and tests now available. The measurement of progress requires an accurate means of measuring initial status. The comparison of one class with another, or of one school system with another, especially when the testing must be done by different persons, also requires a measuring instrument little influenced by different personalities. One of the goals of the makers of standardized tests and scales has been to obtain an objective measuring instrument as little disturbed as possible by the individual using it.

Perhaps in no subject has there been more experimental work done than in spelling. The subject lends itself to careful study in the fields already designated. The investigations which we wish to review briefly as an introduction to the present study have dealt with two problems: (1) the determination of the vocab-

ulary which should be included in children's spelling, and (2) the derivation of objective scales for the measurement of spelling ability.

#### STUDIES IN THE DETERMINATION OF VOCABULARY

An examination of the tabulation<sup>1</sup> shown in Table I will reveal the fact that the sources investigated for the selection of spelling vocabularies fall into four general groups; (1) occurrence in reading vocabulary, (2) occurrence in school lessons or classroom work, (3) occurrence in children's compositions, and (4) occurrence in correspondence, usually that of adults.

The first attempt to compare carefully the spelling work of different school systems seems to have been reported by Rice (14) in 1897. In 1895 he sent out a list of fifty words to superintend-

TABLE I. CONSPECTUS OF VOCABULARY STUDIES.

AUTHOR	DATE	SOURCE OF MATERIAL
Knowles, Rev. J. (3)	1904	Passages from the Bible and various authors
Eldridge, R. C. (4)	1911	Articles of Sunday Newspapers
Ayres, L. P. (5)	1913	Personal and Business Letters
Jones, W. F. (6)	1913	Children's Composition
Cook, W. A. and O'Shea, M. V. (7)	1914	Family Correspondence
Nicholson, Anne (8) (Editor)	1914	Selected by teachers and supervisors from daily lessons
New Orleans Public School List (9)	1916	Children's School Work
Kansas City Public School List (10)	1916	Selected from pupil's misspelled words and teachers' judgment of words pupils should know how to spell
Houser, J. D. (11)	1916	Letters of farmers
Anderson, W. N. (12)	1917	Written correspondence of Iowa People
Horn, E. (13)	1918	Correspondence of Bankers to Bankers

ents in various sections of the United States. Twenty responded sending in the work of more than 16,000 children. The results of the test showed enormous variations, but a two months' tour spent in visiting the various schools convinced him that much of this variation was due to the peculiar manner in which the examinations had been conducted. Also careful pronunciation of several of the words would have given a clue to the spelling.

<sup>1</sup> This tabulation presents only the more important studies from the different sources. For a more complete list see Anderson, W. N. "The determination of a spelling vocabulary based upon written correspondence." (Dissertation, University of Iowa, 1917.)

For these reasons the results of the test were considered unsatisfactory.

A second test involving fifty words in grades four and five, and seventy-five words in grades six, seven, and eight in sentence-dictation form, was given to 13,000 children in eight school systems. In these cases the tests were given under his personal direction and checked by his assistants.

Dr. Rice made no statement in his report regarding the manner of selecting his words except that in the second test "special care was exercised to omit words whose pronunciation would tell the secret" (15) of the correct spelling.

Too much credit can scarcely be given Rice for his pioneer efforts. He initiated the whole measurement movement. Two criticisms, however, may be directed against his work: (1) the words were not selected on the basis of those which children need to learn to spell; and (2) the words were of greatly varying difficulty but were given equal value in scoring. The best evidence in support of the first point is, that of the 77 words used in the second test, 15 do not occur among the 4,000 words of highest frequency in the combined results of the nine most extensive studies of correspondence.<sup>2</sup> These words are: almanac, ascending, changeable, conscientious, deceive, elegant, fatiguing, hopping, laughter, listened, praise, sensible, slipped, sweeping, whistling. Of these, six do not appear in any form, even the most simple.

Rice recognized that the material for spelling instruction should be selected in such a way as to eliminate unusual words. This is shown by two quotations: "The absurdities incident to the so-called 'natural method' were shown very clearly during one of my visits to a fifth-year class, when the pupils, who had studied the pine, were about to write a composition on the subject. In preparation, the spelling lesson of the day consisted of the following words: exogen, erect, cylindrical, coniferal, irregular, indestructible, pins, resinous, and whorls." (16) His fourth recommendation concerning the course in spelling reads thus: "Precedence should be given to common words, while technical and unusual words should be taught incidentally." (17) However, he gave us no clue as to how the "common words" should be detected.

That Rice's words were of greatly varying difficulty was pointed out by Thorndike (18) who gives the relative frequency of mistakes within the same group of children for each of the forty-nine words taken by Dr. Rice to be equal measures of spell-

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<sup>2</sup> The results of this compilation have not been published. Access to the data was secured through the kindness of Dr. Horn.

ing ability. These forty-nine range from a frequency of forty-two errors to zero. Unfortunately, the table does not give the total number of children attempting the test, so it cannot be placed on a percentage basis.

The reader's attention is called to Table II. This table gives the frequency of error of fifth-grade children on five of Dr. Rice's words as found by Thorndike and the percent of error of fifth-grade children on the same words as shown by the Ayres scale and the present study.

TABLE II. DIFFERENCE IN DIFFICULTY OF FIVE WORDS REGARDED BY DR. RICE AS OF EQUAL DIFFICULTY.

Word	Frequency of Error Grade V—Thorndike	Percentage of Error Grade V—Ayres	Percentage of Error Grade V—Ashbaugh
necessary	42	58	77
disappoint	37	79	64
learn	3	12	14
because	1	6	6
picture	0	8	5

#### STUDIES IN DERIVATION OF SCALES

The studies intended to evaluate the words to be used in measuring spelling ability have been but two in number previous to this monograph.

*Buckingham. (19)* In 1913, Buckingham presented the educational world with the first spelling scale. He did preliminary testing with a list of 270 words selected from a much larger list of graded words used by the author in his own school. These had been selected by taking from five of the popular spelling books then in use, a vocabulary of 5,000 words agreed upon by two or more of the books, and then following two principles: (1) "that all of them should be sufficiently common to be in the speaking vocabulary of third-grade children," and (2) "that the spelling difficulty of many of them should be great enough to test the ability of eighth-grade children." (20)

These words were placed in sentences and dictated to grades three to eight. On the basis of the results, a group of 100 words were chosen which in general showed the following characteristics: (1) That the word was not so difficult that it offered no test of third-grade ability. (2) That it showed a steady increase through the following grades but did not reach so high a figure in the highest grades as to prevent its being a test of ability there.

These words were placed in sentences and their difficulty determined by additional testing. By this process he finally arrived at a first and a second preferred list of 25 words each. In order

to get a measure of zero ability, an easy list of fifty words was devised. These words were then evaluated with a high degree of precision and were presented for testing purposes in the form of ten-, twenty-five-, and fifty-word scales.

The small number of words limits the usefulness of the scale since the entire list can be quickly learned to 100 percent median accuracy by a class of ordinary ability in the upper grades. The study is of great interest to advanced students of education because of the great refinement of method. It is doubtful, however, if the high degree of refinement adds anything to the value of the scale for practical use by teachers, principals, and superintendents in the field.

*Ayres.* (21) Probably the most advanced step in spelling measurement was taken by Ayres in 1915 in presenting his Measuring Scale for Ability in Spelling. The 1,000 words in this scale were secured by combining "the results of the several studies so as to secure the most reliable list as a foundation for the work." (22) The placing of the "one thousand commonest words" in the measuring scale assumes that children should be taught and be able to spell these "commonest words" even though they are unable to spell other words. With this assumption we agree.

Two criticisms will be offered concerning the selection of the words:

1. The list is a hybrid since it is made up by combining correspondence frequencies with newspaper and literary frequencies. A comparison of these 1,000 words with the most extensive studies of correspondence reveals 33 words which never occur in these correspondence lists, and 71 others which do not occur in the 3,000 words of greatest frequency. Such words as: arrest, convict, capture, estate, jail, mayor, police, testimony, victim, and witness, occur frequently in newspapers but only a few people ever have any occasion to write them. Why then should they be admitted to our minimal spelling lists?

2. In the selection of these words, root forms and derivatives were counted as one form unless they presented "different spelling difficulties." "Plurals and verb forms presenting no characteristic spelling difficulties beyond those inherent in the singular or infinitive have not been included. (23) Researches by the writer (24) have convinced him that almost without exception derived forms are spelled with less accuracy than root forms, however simple the change involved, and that one cannot select by inspection the forms having slight variation from those having wide variation.

A further criticism must be made on the regularity of the advancement of words in the scale. If all words were learned at the

same rate, this regularity might exist. Buckingham found that most of the words which he tried out did not progress regularly and that frequently there was a reversal instead of advance in accuracy from one grade to another.

He says, "In order that this list should be of greatest value it should be so constituted that the increases in percents correct so keep pace with the increase from grade to grade of general spelling ability that a word tends in all grades to maintain the same difficulty relative to all other words in the list to which it belongs. A word which is twentieth in point of difficulty for the third grade ought to deviate as little as possible from the same rank in the other grades. The experience gained in making this investigation leads us to think that most words do not meet this condition, even approximately. The span between the third and the eighth grades is very wide. Accordingly, a very large class of words is impossible for the earlier yet easy for the later grades. Still others are really difficult in the lower grades, but of almost no difficulty in the upper grades." (25)

The following illustration from Buckingham's Preferred Lists show that although he purposely rejected the most irregular words, irregularities still existed.

TABLE III. PERCENT OF ACCURACY WITH WHICH CHILDREN OF SUCCESSIVE GRADES SPELLED EACH OF THE GIVEN WORDS.\*

Word	Third	Fourth	Fifth	Sixth	Seventh	Eighth
saucer	11	29	42	58	79	81
raise	21	54	67	84	93	94
already	16	42	43	62	44	77
grease	11	18	37	35	42	57

This table is read as follows: The word "saucer" was spelled by third-grade children with an average accuracy of 11 percent; by fourth-grade children with 29 percent; by fifth-grade children with 42 percent, etc. The percents for the other words in the different grades are read in the same manner.

The first two words show rather consistent increases up to the seventh grade and practically no increase from seventh to eighth. The other two show actual instances of lower accuracy of spelling in one grade than in the previous grade.

The present study shows numerous illustrations of the same phenomenon. Since no word was rejected, lapses appeared, as might have been anticipated from the fact that they occurred in Buckingham's highly selected list. Further, these lapses occur

\* These words with their accuracies were selected from Buckingham, B. B. *Spelling Ability—Its Measurement and Distribution*. Table III, page 14.

much more frequently in cases of high accuracy (i. e., very easy words) than in those of medium or low.

Because of these findings, a serious question must be raised concerning the amount of smoothing which Ayres must have done to get the perfect regularity from grade to grade which he has upon his scale.

In order to present the situation as it was actually found, it was decided to provide in the present study a separate scale for each of the grades and to include in each scale the whole number of words. Ayres arbitrarily rejected from consideration all words for each grade whose accuracy fell below the middle step. In the present study, no smoothing has been done to show regularity of progress from grade to grade and no words have been rejected from any grade scale regardless of the low percent of accuracy involved.

In the field of measurement, the Ayres scale has had a much wider influence than that by Buckingham. More than eighty-five thousand copies have been distributed in less than four years. Many spelling tests, such as those by Courtis (26), Monroe (27), Fordyce (28), and the writer (29) have been based directly upon it, and probably hundreds of superintendents have adopted it outright as a minimal list for their schools.

## SECTION II

### THE PROBLEM

Extension work by the writer among the school people of Iowa has brought the following facts clearly to his attention:

1. School people are eager to use the results of scientific research in their school rooms.
2. They have used and appreciated the Ayres Spelling Scale but rightly think that there should be a larger list.
3. For this larger list to be of most worth, the words must be evaluated in some manner.

It was therefore believed that a distinct service would be rendered the schools of the state if a much larger list, scientifically selected, should be evaluated and made available.

At the time the work was begun, the most extensive study of correspondence vocabulary was that of W. N. Anderson. Through the tabulation of 3723 letters of Iowa people, 361,184 running words revealed 3105 different words having such a frequency as to justify, in his judgment, their being taught in school. The Anderson list was an Iowa correspondence list, scientifically selected and containing sufficient words for a much larger list than had ever before been evaluated. Thus the problem became definite—the making of an Iowa Spelling Scale.



**SECTION III****METHOD OF GATHERING THE DATA****SELECTION AND ARRANGEMENT OF WORDS**

For administrative convenience, only 3,000 words were taken from Anderson's list. The words were listed in order of decreasing frequency and the first 3,000 were arbitrarily chosen. These 3,000 were divided into three sets of 1,000 words each, dividing the frequency as equally as possible. For example, the words *and*, *the* and *to* being in order the words of greatest frequency in Anderson's tabulation, became the first word respectively of each of the three sets. The 4th, 5th and 6th words in order of highest frequency became respectively the second words of each set, and so on. Each set of 1,000 was then divided into ten lists of 100 words each.<sup>4</sup> In each set, the 1st, 11th, 21st, etc. words became list 1; the 2nd, 12th, 22nd, etc. became list 2; etc. Thus each list included words ranging from very high to lowest frequency of occurrence in Anderson's study. These lists were printed 100 words on a sheet, and the ten lists of a set clipped together.

**CO-OPERATION OF THE SCHOOLS OF THE STATE**

An invitation to co-operate in a state-wide survey of spelling was sent to the superintendents of schools in all cities and towns of the state, having a population of 1,000 or more. A few smaller places were also invited to participate. More than 150 superintendents promised the co-operation of their teachers in this work. Enough sets of words were sent to each of these superintendents to supply his teachers and printed instructions accompanied each set. A copy of these instructions and list 1 of the set will be found on pages 142 and 143.

These instructions requested ten days work from each class. The children in Grades II-IV were to spell 500 words at the rate of 50 per day and those in Grades V-VIII were to spell 1,000 words at the rate of 100 per day. All spellings were to be made without preliminary study or any teacher help. Children in all grades were thus asked to spell all the different words, although it was surmised that many of them would not be spelled by lower grade children. Preliminary experiments, however, had definitely shown that one could not predict with a high degree of accuracy what words the pupils in any particular grade would misspell.<sup>5</sup>

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<sup>4</sup> The reason for the division of the 3,000 words into sets of 1,000 and lists of 100 will be understood from the instructions to teachers. See page 143.

<sup>5</sup> A very simple experiment in this line was made by the writer with his University class composed of school superintendents and teachers. List 1 of the present study (see page 142) was given to each member of the class with

It was therefore deemed necessary to ask a large number of pupils in each grade (II-VIII inclusive) to attempt to spell each word.

After the 3,000 words were printed and sent out, it was discovered that there were twenty-three words duplicated. Seventeen of these were duplicated in Anderson's original list, while there were six other duplicates due to typographical errors. Thus the list of 3,000 was reduced to 2,977, the number which appears in the completed scales.

The response of the superintendents, teachers and pupils was most gratifying. More than 100 school systems were able to do the work and send in the results. A list of these cities and towns is given on page 144. A conservative estimate indicates that nearly 1,400 teachers and 45,000 children participated in the work.

## SECTION IV

### METHOD OF HANDLING THE DATA

This very generous response brought in several times as much material as could be used. Hence, a random selection of papers on each list was made from all schools returning data in any grade. This means that on the average, about thirty-five cities and towns are represented by pupils in the determination of the position of each word in each scale. At least 200 spellings were used for each word and the total number of spellings used on the 2977 words in the seven grades was 4,662,200.

All data used were scored or re-checked by the writer or by assistants carefully instructed by him. As has been found by everyone investigating spelling, a number of arbitrary decisions had to be made. Words omitted; words illegibly written; words

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the request that he should mark each word as follows: H if in his judgment the pupils of fifth grade would spell the word with an accuracy of from 67 percent to 100 percent; M if they would spell with an accuracy of 34 percent to 66 percent; and L if they would spell with an accuracy of 33 percent or less. The results showed that in spite of the great latitude allowed, but 45 percent of the judgments were correct as compared with the results in this monograph; 31 percent of the judgments were one unit wrong and 14 percent were two units wrong. Two units wrong means that words which pupils spelled with an accuracy of 67 percent or higher were judged as 33 percent or lower and vice versa. Even when the nineteen words whose spelling accuracies by the pupils fell within 5 percent of the dividing points, 33-34 and 66-67, were not considered, only 48 percent of the judgments were correct; 40 percent were wrong one unit and 12 percent were wrong two units. In other words, when experienced school men and women attempted to judge the accuracy with which children would spell a set of words, they were more than 10 percent wrong with more than half the cases and more than 33 percent wrong in 12 to 14 percent of the cases.

substituted due to misunderstanding the pronunciation; wrong form of homonyms; changes in number and tense except when the change involved an addition to, but no change in, the form given were all counted wrong. But one form of spelling for a word was considered right except the few words for which Webster's New International Dictionary lists two spellings as equally correct.

## SECTION V

### ASSUMED DISTRIBUTION OF ABILITY

It was stated in Section II that part of the problem was the evaluation of the words which had been scientifically selected. When the percent of accuracy of spelling has been determined, one form of evaluation has been made, but this is not entirely satisfactory, as will be shown later.

#### NORMAL PROBABILITY CURVE ASSUMED

Figure 1 presents a typical normal probability or normal frequency curve. The curve has the mass of its area in the central part and but a small part near the ends.

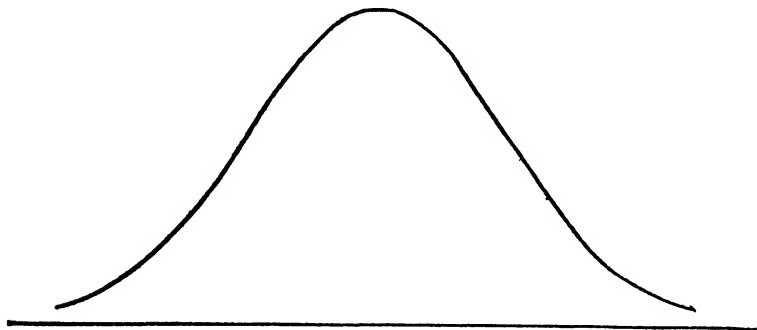


FIGURE 1

This form of distribution has been found to hold true in such human traits as height, weight, length of arms, etc. The great majority of adult men cluster closely around the mean height or weight of all adult men while a decreasing number divide about equally in varying above and below this mean. Only a few vary widely, but those who do are about equally divided as to the direction of their variation.

Does this normal frequency distribution hold true in mental as well as physical traits?

It is a well recognized fact that people with mediocre ability are much more numerous than the dull or the brilliant, and that the very dull and very brilliant are few indeed. Hence, common observation would suggest that general mental ability is distributed in the same manner as physical traits. Does this hold true, also, of the distribution of special abilities such as spelling, arithmetic, language, etc?

The various scales for measuring special abilities such as the Buckingham and Ayres Spelling, Woody's Arithmetic (30), Green's Organization (31), and Trabue's Language (32), have been developed upon the assumption that special abilities are so distributed. The best proof perhaps that the assumption is valid, is that if the assumption is made the results that follow are in very close agreement with the known facts. For these reasons, it was decided to make the same assumption in the present study.

#### SOME PROPERTIES OF THE CURVE

The mathematical properties of the normal probability curve have been very carefully and elaborately worked out on two bases, namely, the Probable Error (P. E.) or mean deviation, and the Sigma ( $\sigma$ ) or standard deviation.

The Probable Error, as a function of the normal probability curve, is that perpendicular distance from the mean at which, if an ordinate is erected, the surface included between this ordinate, the curve, the mean ordinate, and the base line includes 25 percent of the surface included by the whole curve and the base line.<sup>6</sup> In

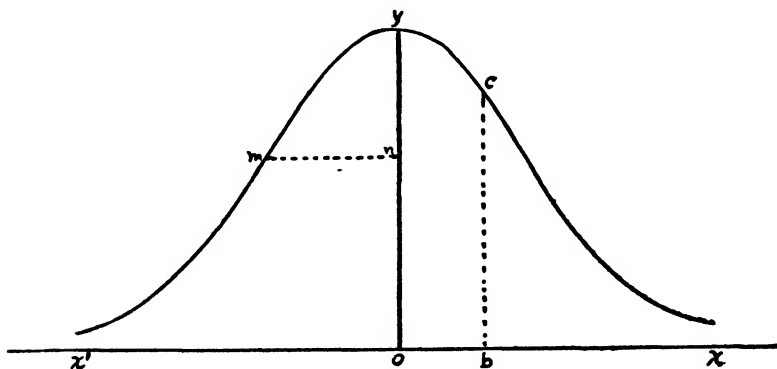


FIGURE 2

<sup>6</sup>In theory the curve and base never meet, the lines being in asymptote, but for practical purposes they are considered as meeting at some given distance from the mean. It is in this sense that we may speak of the surface included between the curve and the base.

Figure 2, *ob* is 1 P. E. distance and *bcyo* includes 25 percent of the surface  $x y x$ .

Likewise, Sigma or the standard deviation, as a function of the normal probability curve, is the perpendicular distance to the mean ordinate from the point on the curve where it changes from concave to convex; *mn* in Figure 2 represents this distance.

Both Probable Error and Sigma, being functions of the normal probability curve, bear constant relationship to the curve regardless of the variability of base and altitude. Through easily accessible tables, the amount of area included by the curve, mean, base, and an ordinate erected at any given Probable Error or Sigma distance, can be found.<sup>7</sup>

Buckingham, in the development of his spelling scale, used Probable Error and arbitrarily broke off the curve (which theoretically forever approaches the base but never meets it) at  $\pm 4.6$  P. E. This disregards but about one-tenth of one percent of the total surface on either side of the mean.

Ayres, in making his scale, used Sigma and arbitrarily broke the extremities at  $\pm 2.5 \sigma$  which disregards about six-tenths of one percent at each end.

After considerable experimentation, the writer decided to follow Ayres and use the  $\pm 2.5 \sigma$  curve for the following reasons:

1. In practical schoolroom work it is doubtful if it is worth while to differentiate spelling differences of less than one percent. To extend the curve beyond  $\pm 2.5 \sigma$  which is approximately the same as  $\pm 3.75$  P. E., necessitates this finer differentiation.

2. Since 893 words<sup>8</sup> are common to the Ayres Scale and this study, the use of the same form of distribution would permit comparisons not possible otherwise.

### PLACING WORDS IN THE SCALE

Having assumed the normal probability curve, and having decided upon the measure of variability to use and the limits at which the curve should be arbitrarily broken off, the next problem was to decide on the number of steps into which to divide the base. The spelling accuracies varied in most grades from at or near zero on some words to at or near 100 percent on others. That is, there were some words which children of any grade spelled with perfect or nearly perfect accuracy while there were other words which were missed by all or nearly all the children.

<sup>7</sup> For further discussion of the theory of the normal probability curve, the reader is referred to: Rugg, H. O., *Statistical Method Applied to Education*, Ch. VII.

<sup>8</sup> There are 893 words which appear in both studies which are identical in form while there are 25 others which differ in suffix only. Of these, 10 differ in the suffix "e-d" and 5 in the suffix "g."

In theory the number of steps or divisions into which the base may be divided is infinite, but practical considerations limit the number to but a few. Since our assumption of normal distribution predicates that the number of very good and very poor spellers are few, it is necessary to make finer discriminations between those percentages lying near the extremes of the scale than between those lying near the middle. The larger the number of steps or divisions into which the base is divided, the finer the distinctions drawn all along the scale, but especially is this true near the extremes. As has been stated, however, a finer discrimination than whole percentages can hardly be justified in an instrument designed for practical schoolroom measurement. On the other hand, but few divisions would tend to cover up differences which should be revealed.

Again, after much experimentation it was decided that the division of the base line into twenty-five equal steps, as Ayres did, gave the best results since it permits single whole percentage discrimination of differences near the extremes and does not group together too large percentage differences in the middle.

If there were an equal number of each grade of ability, excellent, good, fair, poor, and very poor; that is, if the frequency surface were a rectangle, then the percentage valuation would be very satisfactory. But we know this is not true and have assumed the distribution to be that of the probability curve instead. Therefore, words which differ by a single percent in the accuracy of spelling do not always represent equal differences in difficulty. Reference to Figure 1 will show quickly that the linear distance between two ordinates so erected as to include between them, the base and the curve, one percent of the whole surface will differ much depending upon whether the ordinates are erected near the median or near the extremes. One of these twenty-five parts into which we have divided the base will underlie approximately nine percent of the surface if located at the median, about four percent if located midway between the median and the extremes and only one percent if located near the extremes. It is this recognition of the type of distribution of ability which makes the percentage evaluation unsatisfactory.

On the basis of the accuracy of the children's spellings, each word was then placed in its proper step or position on the scale. Because it was thought that students of experimental education might care to have the finer distinctions which are not afforded by the step position alone, it was decided to keep the percentage groups within the steps of the scale separate and designate the exact percentage accuracy with which each word was spelled by the children.

If the difficulty of words be defined in terms of differences in position among the steps of the scale, then the words which lie in a single step are of approximately equal difficulty and the words in one step are as much more difficult than those in the previous step as the words in any other step are more difficult than those in the step preceding it. That is, the degree of difficulty between steps is constant throughout the length of the scale.

It will be perceived, of course, that the difficulty of spelling a word is thus defined in terms of the accuracy with which children in a given grade responded to the word under the conditions described in this monograph. It has nothing to do with the inherent difficulties of teaching or learning the word except to the extent that these may be reflected in the accuracy of the spellings of the pupils.

Throughout this monograph, spelling ability is spoken of in terms of efficiency of performance. The only measure of ability which we have for mental traits is in terms of performance. This is common usage and we believe it is perfectly justifiable. We measure ability to read, ability to add, ability to hit a target, ability to lift a weight, etc., in terms of performance. In all these activities, we find by measuring a large number of cases that a few are very good, a few very poor and the majority of all cases occupy an intermediate position. In other words, these various abilities distribute themselves about in the form of the normal probability surface of frequency. It has been the assumption upon which these scales have been built, that spelling ability, ability to do this particular thing under the given conditions, is distributed in this same manner. The scales do not concern themselves with the child's inherent capacity to learn to do, or the difficulties inherent in the words themselves.

## SECTION VI

### USE OF THE SCALES

These scales lend themselves to at least three uses, namely, (1) measurement of status of spelling ability, (2) measurement of growth in spelling ability, and (3) a minimal spelling list for teaching purposes.

Each word having been placed in the scales on the basis of the accuracy with which children in the respective grade spelled it when presented in ordinary list form, any teacher, principal, or superintendent may use the scale to determine how well his own class or school can spell any group of these words in comparison with the children of Iowa as a whole. In making this comparison, the following things should be remembered.

1. That to secure comparable results, the words should be pronounced in accordance with the original instructions (See page 143) and the words scored according to the criteria stated on page 15.

2. That these spellings were from pupils who had on the average completed approximately one-half of the year's work for the grade. Tests given at the beginning or end of the year's work should be interpreted accordingly.

3. That to secure equally reliable results, a much larger list of words must be used with a small group of pupils than with a large group.

4. That in general, words located near the middle of the scale, those with an accuracy of 35 percent-65 percent, are probably more reliable for measuring purposes than those near the extremes.

Words spelled with 100 percent accuracy furnish no test because all the children have mastered them. Some of them could undoubtedly spell much more difficult words. Likewise, words which are missed by all the children furnish no test since we have no means of knowing how much too difficult they are. Since there are many possibilities of wrong spelling against one possible right form, it is probable that 50 percent represents the maximum point of critical measure of a group. This conforms with the experimental work of Otis. (33)

#### MEASUREMENT OF STATUS OF ABILITY

In using the scales for measuring class and school status, it should be kept in mind that words of differing percents within a step are of approximately equal difficulty but to equalize even small differences, a random selection of words from all the percentage groups in a step should be made and these words pronounced as an ordinary spelling test without instruction or previous study. If the average of the class is the same as the average for the step or within the limits of the percents listed under one step, the class has a spelling status on these words about the same as the children of like grade in Iowa. If the class average reaches a percent higher than the highest listed under the step, the class is above average; if below the lowest listed under the step, it is below average.

A word of caution is perhaps in place. The teacher in using these scales must remember that the fundamental assumption upon which the scales have been built is that spelling ability distributes itself according to the normal probability surface of frequency. It must not be expected, therefore, that all the children in her class will spell all the words in a given test, even though



the words are chosen from a single step on the scale, with the same percent of accuracy. A wide range of variation is to be expected and a very narrow range would be quite unusual. Further, the words in a step have been placed there as of approximate equality on the basis of a large number of spellings and it is not to be expected that, with a small group such as a class, the accuracy of spelling on each of the words will be equal.

#### MEASUREMENT OF GROWTH OF ABILITY

In measurement of growth, two objects may be distinguished, (1) the measurement of growth or change due to a term or year of school work, and (2) the measurement of growth or change due to the use of a special method, device, or time variation during a greater or less period.

The first measurement will probably be the one of most significance to teachers and superintendents, and gross differences will be of greatest interest. For this reason, the differences may well be considered mainly in terms of step changes.

The second measurement will be of primary interest to special supervisors and students of experimental education. Since these persons are interested in more refined results, they should consider the individual percentage groups within the step. Whole step differences may frequently be larger than the changes brought about by the conditions involved in the experiment.

#### A MINIMAL SPELLING LIST

This list presents with a high degree of accuracy the words which people use most frequently in written correspondence. For this reason it is highly important that pupils in the elementary school learn to spell these words. By using the words of the scale as the material for regular class instruction, teachers may note class improvement, but they must recognize that as a scale it is becoming less and less valuable as a measuring instrument. However, the writer agrees completely with Ayres when he says, "Probably the scale will have served its greatest usefulness in any locality when the school children have mastered these words so thoroughly that the scale has become quite useless as a measuring instrument." (34)

### SECTION VII

#### LIMITATIONS OF THE SCALES

The scales presented herewith are subject to certain limitations, some of which will be discussed in this section.

## NUMBER OF SPELLINGS USED

In general, with a random selection the reliability of results increases as the square root of the number of cases involved. In the following scales, the number of spellings on each word in each grade was 200 or more. This number was selected as being a sufficient number to give a degree of reliability acceptable in this type of measurement.

However, in order to ascertain the range of variability which might be expected on the basis of 200 spellings in comparison with a larger number, 700 spellings were selected at random on a list of 100 words. The accuracy of spelling on each word was checked out per 100 spellings and three combinations of 200 each were compared with the accuracy of 700. The spelling accuracy of the 100 words in the 700 spellings varied from 100 percent for the three easiest words to 11, 15 and 20 percent respectively on the three most difficult words.

Since the words were to be placed in the scales in terms of steps of equal value as stated previously, it was thought that this examination of reliability of placement should be in terms of steps rather than in terms of percent. The total scale was divided arbitrarily into three-step groups on each side of the middle step. Then the three on each side adjacent to the middle step and this middle step were thrown together since there seemed no valid reason for keeping them separate, the percents in each step being symmetrically placed above and below the middle step. When the 100 words were distributed according to this grouping on the basis of accuracies obtained from the 700 spellings of each word, it was found that there were 12 words in the easiest group, 32 in the next, and so on as shown in column four of Table II.

Next the accuracy for each word on the basis of each of the first, second, and third 200 spellings was taken from its accuracy

TABLE IV. AVERAGE DEVIATION OF SPELLING ACCURACY IN TERMS OF SCALE STEP OF RANDOM SAMPLINGS OF 200 SPELLINGS FROM THE ACCURACIES OF 700 SPELLINGS.

Accuracy in Percents on 700 Spellings	Number of Scale Steps Within These Limits	Average Range in Percent Included in One Step	Number of Words in Group	Average Deviation in Scale Step		
				First 200	Second 200	Third 200
98-100	3	1.00	12	.42	.42	.42
91-97	3	2.33	32	.55	.60	.63
77-90	3	4.67	20	.49	.69	.41
24-76	7	7.57	33	.38	.27	.34
10-23	3	4.67	3	.50	.07	.93

on the basis of the total 700 and the average difference of deviation of all words within the group was determined. This average deviation in terms of percent was then converted into average deviation in terms of scale step by dividing by the average range in percent included in one step.

From these data it is concluded that since the average variation is less than 0.7 of a step in all cases but one, and is 0.5 of a step or less in more than half the cases, 200 spellings is amply sufficient for the degree of accuracy required in placing the words in a scale of this type.

#### DISTRIBUTION OF SPELLINGS

It may be considered a limitation on the scales that all spellings used were secured from Iowa school children. The answer to this is two-fold: (1) that the scales were designed primarily for service to the school people of the state of Iowa. From this standpoint this limitation becomes a positive recommendation. (2) On the basis of a state-wide study of spelling, involving 8818 children in Grades III to VIII inclusive, on spelling tests devised from the Ayres scale, the school children of Iowa spell with about the same average accuracy as children in the 86 cities involved in the Ayres study. This is shown by Table V.

TABLE V. COMPARATIVE SPELLING RESULTS: AYRES SCALE AND 27 IOWA CITIES. 20 WORDS, LIST SPELLING.

Grades	Third	Fourth	Fifth	Sixth	Seventh	Eighth
Number of Children	1620	1635	1841	1338	1228	1156
Iowa Average Scores	73	85	74	83	77	86
Ayres Standard	73	88	73	84	73	84

The table is read as follows: 1620 third-grade children spelled the 20 words with an average accuracy of 73 percent and the Ayres standard for these words is also 73 percent; 1635 fourth-grade Iowa children spelled the 20 words with an average accuracy of 85 percent while the Ayres standard on these words is 88 percent. The number of children and the average accuracy for Iowa children and the Ayres standard for the other grades are read in the same manner.

#### WORDS GIVEN IN LIST FORM

It is recognized that the spelling of words in list form does not give an exact measure of the accuracy with which children will spell words in their ordinary daily work. This condition is perhaps more closely approximated by a timed-dictation test. In neither case, however, can we be certain that the ability displayed

is exactly the same as that which will function when the child is writing spontaneously. These scales do present the accuracy with which children did spell these words when presented under the conditions described in the monograph.

#### WORDS OF VARYING DIFFICULTY PRESENTED IN THE SAME LIST

Making up the list of words on the basis of approximately equal distribution of words of high, median, and low frequency in written correspondence necessarily brought into the same list, words of widely varying difficulty. How far this tends to produce an inaccurate result in the spelling of the common words is not definitely known.

Due to the fact that 23 words were duplicated in the lists sent out, it is possible to make some comparison between the accuracy with which words were spelled when they occurred early in the list, preceded by words which were comparatively easy, and when the same words occurred late in the list, preceded by words of greater difficulty. Thirteen of these 23 words involved this situation of appearing one time rather early in the list and a second time rather late. A comparison of the accuracy with which the children in each of the different grades spelled the word when it occurred early in the list with the accuracy with which it was spelled by children of the same grade when it occurred late in the list, showed two things:

1. That in all grades there was a somewhat higher average accuracy on the words when they occurred early in the list, though some words showed the opposite situation. The median increase in accuracy in the seven grades on words occurring early in the list over the accuracy on the same words when occurring late in the list was but 2 percent. This difference in accuracy was greatest in the third and fourth grades, though a priori judgment had decided that this factor would most affect second-grade children and have less influence thereafter from grade to grade.

2. The average difference of spelling accuracy in these two grades which seemed to be most greatly influenced by this factor was practically identical with the range of percents included in a single step in the portion of the scale in which these words appear.

Since these words were placed in the scales in an intermediate position determined by the average accuracy of spelling in the two positions, it is quite certain that no word is misplaced more than a single step. It is probable that half the words are misplaced less than half a step (that is, not at all in the scale) due to this factor.

## NO ZERO POINT ON THE SCALE

These scales in common with the Ayres scale, place the words on the basis of relative difficulty rather than absolute difficulty from a point which would indicate no ability at all. Because of this limitation, it is not possible to state that words appearing in any single step are so many "times as" difficult as words appearing in some other step. It is only possible to state that words in any step are as much more difficult than the words in the step preceding as the words in any other step are more difficult than the words in the step preceding that. In other words, the inter-step difficulty is approximately equal throughout the scale.

From the standpoint of practical usage the lack of an absolute zero-point presents no serious objection. In the measurement of progress, school people are interested in making comparison with norms and with previous status rather than in determining "times as" relationships. For this reason, a zero-point was not considered of sufficient importance to justify the large amount of additional work which would have been necessary to have secured it.

## SECTION VIII

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**SECTION IX**

**THE IOWA SPELLING SCALE**

**GRADE II**



## GRADE II

STEP 5—94%		in	get	singing
day	95%	let	play	they
it		that	some	with
	94%	82%	told	68%
and		did	75%	age
is		look	ball	am
me		so	cannot	box
		tell	hat	came
			ring	going
			this	hill
STEP 6—92%		STEP 9—79%		its
he	93%	81%	them	like
to-day		have	wind	mad
	92%	no		pig
are		up	cold	playing
at		will	door	red
	91%	80%	girl	ship
can		big	lot	thank
		but	or	top
		land	think	67%
STEP 7—88%		old		call
	90%	say	bee	end
all		ten	doing	far
the		79%	got	from
you		ago	May	give
	89%	an	sat	had
be		hand	three	stop
go		hen	toy	66%
	88%	into		free
dog		of	baby	ice
not		on	cat	king
see		us	has	pin
she		78%	home	put
	87%	as	pie	65%
boy		last	seeing	bed
may		man	then	being
my		to	70%	by
was		tree	bad	fast
		your	dad	feet
			looking	fill
STEP 8—84%		77%	much	find
good	86%	away	thing	flat
	85%	cat	time	green
book		fat	year	lay
for		gold		made
if		out	STEP 11—66%	
	84%	run	69%	
little		way	Miss	night
	83%	we	one	sun
come			64%	
do		STEP 10—73%		bat
his		76%	bell	glad
how		cow	cap	grass
		dear	corn	her
			five	
			hit	
			love	
			over	

inside	lost	cake	52%
make	papa	coat	about
milk	pen	holding	art
most	poor	left	ate
must	rich	morning	cool
net	room	nut	fell
same	seen	plan	life
telling	snow	rose	low
63%	sold	shop	near
hot	soon	slip	pass
name	sport	stove	place
now	take		rug
wall	took		saying
	west	STEP 13—50%	scil
	what	54%	spell
STEP 12—58%	58%	ask	spot
62%	aside	bear	within
apple	asleep	beside	51%
band	fun	blow	around
bill	him	born	city
each	landing	dust	forget
fall	miss	farm	hall
nine	mother	feed	just
when	pay	finding	kind
yet	sin	helping	list
61%	state	lake	pick
bid	tip	late	stay
cup	57%	long	Sunday
down	can't	post	town
ever	cut	price	upon
kiss	fish	ride	wife
mill	food	seed	50%
part	grade	song	been
rest	hay	too	bit
school	here	well	black
send	met	53%	blank
six	rain	along	brand
tent	sleep	bank	car
till	wet	belong	fee
want	56%	date	gather
60%	child	deep	grand
bay	game	foot	head
cent	keep	happy	hers
forgot	lift	joy	print
gave	mud	kill	shall
hold	rock	noon	side
live	sit	plow	silk
Mr.	small	sad	sis
sent	tenth	said	spring
stand	than	set	tie
standing	there	shot	very
week	trip	snowing	went
wish	win	two	49%
59%	yes	under	arm
best	55%	war	display
bring	after	where	faster
income	back		finger

gate	while	bringing	colder
Jan.	why	card	cooking
mind	46%	clear	football
nap	barn	corner	hand
never	became	dark	however
our	become	dinner	June
read	blue	fishing	leg
rod	bog	mend	lone
roll	coming	north	lump
soft	fair	off	nothing
spent	ford	past	older
step	gland	rush	once
street	hear	show	outfit
such	help	smart	river
wanting	lived	stone	sixth
48%	maker	tend	stood
bake	mine	test	these
begin	open	thinking	tile
drop	rent	trust	to-night
feeding	rip	try	winter
four	shut	wild	41%
gray	slow	willing	bright
hard	son	working	drive
inch	sort	yourself	felt
letter	who	43%	fit
note	window	blame	fort
paper	wood	boat	glee
pine		both	hog
raining	STEP 14—42%	close	inform
rate	45%	damp	lie
real	banker	drum	master
sheep	behind	even	only
starting	better	handed	pa
thanking	bird	hoping	page
wide	butter	lives	park
wool	calling	March	report
work	cash	more	seem
47%	drug	new	seven
able	face	nose	skate
cord	found	ours	something
fine	gone	passing	start
form	grant	pole	teaching
glass	kid	pools	wage
goldfish	lady	render	walking
light	luck	saw	whenever
mamma	mail	someone	wishing
meat	mate	sometime	40%
nor	might	walk	any
oh	nice	42%	apart
order	rust	added	brother
plate	stamp	asking	bunch
sight	still	below	buy
sister	store	bet	care
sweet	table	cane	chop
thin	without	cast	cream
were		class	forming
			gown

herself  
hour  
hunt  
hunting  
ink  
jump  
large  
longer  
looked  
loved  
lovely  
mark  
myself  
outside  
ranch  
reader  
rice  
saved  
short  
snap  
snowed  
swell  
training  
yellow

39%

afternoon  
bugs  
camp  
coy  
draft  
drill  
evening  
feeder  
getting  
goat  
handy  
having  
homesick  
horse  
I'll  
know  
lame  
leave  
lunch  
meet  
Monday  
neck  
printing  
reading  
renting  
right  
round  
Sat.  
shed  
sock  
spelling  
summer

wake  
worker  
alive  
backing  
Christmas  
clay  
could  
die  
done  
egg  
Feb.  
finish  
flower  
forgive  
garment  
given  
grip  
ha  
inclose  
kitten  
least  
ma  
number  
plum  
porch  
printed  
road  
rolling  
scrap  
slide  
spend  
stick  
stunt  
washing  
yard

38%

STEP 15—34%

37%

across  
again  
badly  
bite  
boss  
broke  
clothing  
contest  
cost  
cross  
dandy  
eye  
farther  
fight  
frost  
fur  
great

harder  
himself  
keeping  
market  
move  
overcoat  
paying  
sink  
staying  
storm  
train  
whatever

36%

case  
clock  
closer  
darling  
don't  
farmer  
filing  
forth  
hate  
held  
herewith  
inasmuch  
need  
next  
oldest  
other  
own  
pack  
rack  
rank  
roof  
sick  
sorry  
south  
supper  
tank  
teeth  
their  
wash  
which  
won't

35%

air  
also  
aunt  
base  
blood  
catalogue  
chair  
chill  
church  
clean  
cooler  
cover

deal  
fifty  
fire  
first  
fresh  
Friday  
grit  
ground  
happen  
killed  
kinder  
kindest  
liver  
longest  
noted  
pink  
posted  
recall  
sack  
safe  
sending  
sum  
taken  
trade  
word  
write

34%

alone  
bean  
beg  
began  
bother  
boxes  
delay  
everyone  
feeling  
fellow  
filling  
gift  
handsome  
hardly  
hole  
indeed  
insist  
July  
kindly  
listed  
loud  
meal  
mostly  
mouth  
neat  
Nov.  
Oct.  
oil  
picking  
pride

riding  
row  
says  
shame  
shortly  
sir  
somewhat  
space  
spending  
taking  
tiny

33%

bench  
called  
dice  
dose  
east  
eve  
fear  
half  
holder  
house  
ill  
intend  
later  
less  
mean  
meeting  
peach  
pending  
profit  
rabbit  
remind  
renter  
sash  
saving  
soap  
spoke  
those

32%

adding  
agree  
ahead  
belonging  
catch  
cattle  
check  
clever  
club  
count  
covering  
dead  
deed  
dress  
every  
father  
file

flesh  
folder  
gas  
gladly  
lighting  
likely  
linen  
making  
many  
pain  
poorly  
race  
seat  
seventh  
shade  
slept  
stage  
stating  
ton  
water  
whereby

31%

act  
asked  
baking  
beat  
chose  
creep  
enter  
floor  
folk  
funny  
grandma  
grind  
job  
nearer  
needing  
newspaper  
none  
pound  
protest  
sale  
shape  
smaller  
stair  
stock  
teach  
waste  
white  
woven

STEP 16—27%

30%

another  
banking  
begun  
blew

chairman  
change  
charge  
children  
chum  
crib  
crop  
deliver  
drew  
few  
forest  
fourth  
frame  
harvest  
herein  
hundred  
I'm  
joke  
limit  
larger  
pair  
party  
please  
post card  
scout  
showed  
sooner  
sound  
strongly  
together  
treat  
trunk  
understanding  
washed  
weak  
wonder

29%

amount  
awhile  
beef  
before  
belt  
birthday  
booklet  
brick  
closing  
dearest  
clearly  
depend  
depending  
fail  
fix  
front  
grew  
hair  
handling  
hearing

heat  
household  
merry  
Mrs.  
named  
payment  
per  
printer  
rained  
shipping  
thick  
thus  
true  
trying  
visit  
warm  
you'll

28%

add  
attending  
basket  
Bible  
brought  
brush  
calf  
cheer  
Dr.  
drilling  
fitting  
garden  
gee  
likewise  
manage  
mighty  
nearly  
present  
selling  
sleet  
speed  
stranger  
sunshine  
talking  
thankful  
track  
trained  
workmanship

27%

anyone  
behalf  
block  
cared  
carpet  
carrying  
chapter  
cleaner  
cleaning  
cloth

coffee	unless	kisses	prior
content	wanted	lace	prize
credit	wheel	largest	proper
dare	yesterday	lose	pump
Dec.	yoke	maid	pupil
does	25%	member	pure
extent	all right	membership	regard
former	body	o'clock	regret
growing	delighted	oven	remit
housekeeping	dressed	partly	respond
idea	dresser	planted	sand
lining	eight	proud	September
maple	everything	rail	team
nobody	family	removed	throw
opened	glove	rented	understood
packing	heap	sheet	walked
paint	inclosing	shipment	would
self	jar	shoe	22%
strike	loss	sire	absent
strongest	lung	started	adjust
sure	mailed	tight	afraid
tax	marking	township	anyway
teacher	maybe	turned	battle
until	overlooked	twice	beaten
wishes	people	use	board
worked	played	wear	chart
26%	queen	wise	copy
admit	renew	won	disposed
always	seal	world	dollar
branch	silver	worth	dream
coal	somewhere		flour
danger	steel		forty
December	talk	STEP 17—21%	fruit
film	trusting	23%	gain
granted	twenty	almost	glasses
grown	understood	beet	investment
heating	voting	bigger	latest
high	weekly	burn	living
insert	welcome	carry	lowest
isn't	western	closed	lucky
January	wire	cloudy	moved
knew	24%	colt	namely
mass	army	deeply	news
month	brain	demand	nineteen
ninth	broken	died	oblige
November	crowd	dirty	per cent
oats	early	enjoying	picture
opening	enjoy	finest	pocket
pencil	filled	fixed	quick
point	fund	greater	seemed
press	handled	grove	simple
program	haven't	inviting	sixty
pull	helpful	main	skating
remark	higher	match	soil
saver	invited	October	stuff
thread	joyful	oversight	toward
tire	kept	plain	tried

riding  
row  
says  
shame  
shortly  
sir  
somewhat  
space  
spending  
taking  
tiny

33%

bench  
called  
dice  
dose  
east  
eve  
fear  
half  
holder  
house  
ill  
intend  
later  
less  
mean  
meeting  
peach  
pending  
profit  
rabbit  
remind  
renter  
sash  
saving  
soap  
spoke  
those

32%

adding  
agree  
ahead  
belonging  
catch  
cattle  
check  
clever  
club  
count  
covering  
dead  
deed  
dress  
every  
father  
file

flesh  
folder  
gas  
gladly  
lighting  
likely  
linen  
making  
many  
pain  
poorly  
race  
seat  
seventh  
shade  
slept  
stage  
stating  
ton  
water  
whereby

31%

act  
asked  
baking  
beat  
chose  
creep  
enter  
floor  
folk  
funny  
grandma  
grind  
job  
nearer  
needing  
newspaper  
none  
pound  
protest  
sale  
shape  
smaller  
stair  
stock  
teach  
waste  
white  
woven

STEP 16—27%

30%

another  
banking  
begun  
blew

chairman  
change  
charge  
children  
chum  
crib  
crop  
deliver  
drew  
few  
forest  
fourth  
frame  
harvest  
herein  
hundred  
I'm  
joke  
limit  
larger  
pair  
party  
please  
post card  
scout  
showed  
sooner  
sound  
strongly  
together  
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trunk  
understanding  
washed  
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wonder

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amount  
awhile  
beef  
before  
belt  
birthday  
booklet  
brick  
closing  
dearest  
clearly  
depend  
depending  
fail  
fix  
front  
grew  
hair  
handling  
hearing

beat  
household  
merry  
Mrs.  
named  
payment  
per  
printer  
rained  
shipping  
thick  
thus  
true  
trying  
visit  
warm  
you'll

28%

add  
attending  
basket  
Bible  
brought  
brush  
calf  
cheer  
Dr.  
drilling  
fitting  
garden  
gee  
likewise  
manage  
mighty  
nearly  
present  
selling  
sleet  
speed  
stranger  
sunshine  
talking  
thankful  
track  
trained  
workmanship

27%

anyone  
behalf  
block  
cared  
carpet  
carrying  
chapter  
cleaner  
cleaning  
cloth

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remark	higher	match	soil
saver	invited	October	stuff
thread	joyful	oversight	toward
tire	kept	plain	tried



turn	habit	pillow	seller
velvet	hereafter	plenty	shown
21%	hereby	quart	sickness
aid	iron	quite	sitting
because	I've	regarding	slight
birth	junk	retail	talked
bought	knowing	rushed	throat
cook	law	seventy	twelve
crew	load	struck	vary
daddy	matter	thereafter	violin
exchange	permit	travel	waited
foolish	powder	tread	weather
frankly	public	Tuesday	weigh
highest	quit	upper	whether
hotel	Sept.	watch	writer
I'd	since	wheat	Xmas
inclosed	single		17%
itself	size	STEP 18-16%	acting
Latin	standard	18%	adopted
latter	supply	above	artist
loaded	title	ache	attain
misses	vote	adjustment	cabinet
money	wagon	afloat	chain
moving	wedding	already	chance
nerve	whole	April	damage
nicely	withdraw	benefit	debating
pretty	wrote	charming	delivered
setting	yearly	chicken	else
submit	young	closely	enjoyed
taste	youth	company	everybody
tested	19%	delayed	fifth
third	address	discount	forgotten
thought	ans.	dispose	globe
voter	anything	extra	haste
wrong	anywhere	grandfather	hello
20%	blooming	greatest	independent
agreed	buyer	growth	informed
among	center	hurt	known
attend	choose	inspect	labor
brown	coin	invite	lamb
busy	counting	joined	lately
buying	doctor	laid	leaf
coach	edge	mailing	liked
dance	entry	minister	management
dated	fact	moment	needed
death	feel	ninety	person
debate	forwarding	odd	power
detail	French	otherwise	prevent
dwelling	friendly	passed	reaches
enclosed	inches	placed	ready
enclosing	item	plainly	recently
fare	join	postage	refund
fever	lumber	railroad	rule
forenoon	mister	reported	sore
forwarded	monthly	sample	study
goose	music	Saturday	tattooing
grain	perhaps		ticket

tired  
transit  
Tues.  
used  
worm  
zero

16%

advice  
advise  
agent  
auto  
await  
bottle  
country  
dancing  
didn't  
enclose  
fern  
fifteen  
friend  
froze  
further  
greeting  
handle  
heard  
helped  
hoped  
intended  
lesson  
loose  
lower  
message  
nurse  
owe  
range  
rapidly  
raw  
reach  
reached  
reaching  
reply  
rubber  
sew  
square  
term  
that's  
unpaid  
utmost  
whom  
wished  
woman

15%

aim  
anybody  
anyhow  
August

awaiting  
booster  
bottom  
branches  
building  
cheerful  
client  
comply  
devoted  
dread  
easy  
final  
finished  
follow  
fourteen  
fully  
hasn't  
hurry  
ideal  
island  
knot  
largely  
liberty  
locate  
lonesome  
losing  
loving  
mistake  
outlined  
painter  
pastor  
presented  
primary  
proved  
rainy  
raised  
repair  
return  
scare  
score  
semester  
serve  
sewing  
shock  
spare  
speak  
stayed  
suit  
temple  
therefore  
visited  
wait  
wondering

14%

afterward  
ashamed

Aug.  
basis  
billed  
bowl  
buggy  
captain  
cartoon  
change  
changing  
cleaned  
clerk  
clothe  
control  
county  
covered  
dealing  
delightful  
elect  
expert  
failed  
flavor  
fullest  
gasoline  
germ  
gotten  
gravy  
hardware  
hare  
improve  
inst.  
kindness  
ladies  
loan  
lonely  
manual  
mere  
method  
missed  
office  
ordering  
packed  
placing  
provided  
quickly  
renewed  
respect  
ribbon  
serving  
should  
slightly  
smooth  
speaker  
stated  
steam  
thanksgiving  
thereof  
unable

uncle  
useful  
value  
waiting  
wearing  
weary  
wouldn't

STEP 19-12%

13%

alfalfa  
aren't  
boiler  
booth  
bushel  
charged  
classes  
clearly  
confined  
constant  
dozen  
eager  
extend  
fairly  
fancy  
greatly  
industry  
learn  
learned  
leaves  
level  
lovingly  
model  
movement  
needle  
noise  
owing  
patent  
pavement  
pleased  
proof  
recent  
recovered  
remembering  
served  
share  
slipper  
taught  
thousand  
topic  
wasn't  
watching  
women  
you'd  
zone

<b>12%</b>	second	recover	kitchen
answered	server	relation	leaving
apply	settle	remove	length
beyond	skirt	scale	limb
breaking	soldier	spirit	madam
build	tract	splendid	married
candle	using	steady	middle
caught	voice	stopped	misunderstanding
checking	Wednesday	strict	ordered
choosing		subject	painting
coasting	<b>11%</b>	suffering	preparing
color	advantage	talent	properly
comfort	agreeable	tanning	publisher
cough	amendment	taxes	quiet
decline	backed	to-morrow	quote
dependent	bluff	truly	reason
desire	careful	we'll	refer
earth	carefully	witch	remember
eighty	cause	worry	represented
eleventh	caused		result
enrollment	colored	<b>10%</b>	several
fence	cottage	abstract	simply
forward	court	advising	spread
freeze	cute	against	stamped
friendship	delivery	allow	studying
furnish	disgusted	ankle	supplied
gaining	during	answer	text
guess	enough	answering	Thursday
health	entirely	applicant	trace
hence	express	automobile	wonderful
illness	February	Ave.	X-ray
installed	federal	awful	
interest	formed	barley	
ivory	formerly	bridge	<b>STEP 20—8%</b>
leader	graze	Bro.	<b>9%</b>
letting	heavy	button	acre
located	history	cheap	addresses
manner	interested	coast	advance
meantime	interesting	collar	advertising
northern	manager	condition	appeal
obliged	modern	crazy	attach
offering	nevertheless	democrat	attached
organ	notion	destroyed	bass
ought	offered	due	boarding
owned	painted	ease	broad
patch	parlor	enroll	candidate
performed	penny	entitle	carried
problem	piano	field	cheaper
providing	picnic	furnishing	confident
quarter	post office	gallon	consist
rapid	prevented	gentleman	contain
record	promotion	hadn't	contained
refuse	prompt	heretofore	containing
request	promptly	important	continue
rifle	proves	including	convince
safety	putting	information	cotton
season	raising	invoice	credited

customer	united	relative	graduation
daily	vacation	renewal	grammar
dairy	valued	republican	guide
data	view	reputation	heir
dealer	whose	returning	homestead
degree	writing	satisfy	honest
department	yourselves	shipped	human
direct	8%	shipper	hurried
discontinued	addressed	sign	improved
duty	advertise	situation	increasing
employed	ample	statement	jury
enrolled	argument	station	justify
entertainment	assist	sugar	learning
except	assortment	surprise	leather
favor	attention	thesis	librarian
firm	barely	though	limited
following	believe	touch	listen
fortune	blackberries	towel	literary
girlie	braid	visiting	location
happened	builder	waist	loyal
improving	built	we've	merit
instant	bulk	winner	obtain
instructed	cellar	7%	operation
intention	comfortable	ability	patron
internal	confer	according	perfect
international	continued	acted	perfectly
machine	daughter	active	piece
nation	education	addition	policy
normal	effort	adjusted	prepaid
ocean	establish	administrator	property
pattern	etc.	ambition	published
peace	figure	auntie	question
phone	fuel	between	register
phoned	gained	bracelet	regular
potatoes	gentlemen	break	regulation
postal	German	breakfast	remedy
prefer	good-bye	capital	remembered
president	grateful	cashier	rendered
promised	healthy	checked	resident
proven	meter	concluded	section
raise	officer	consider	seldom
reasonable	opera	considerable	shopping
remain	operated	contract	shoulder
replying	package	conversation	style
represent	payable	cutting	suppose
requested	pearl	desired	thirty
returned	planning	develop	total
ruin	pleasant	director	transfer
running	position	discovered	treated
rye	priced	dodge	vacant
student	Prof.	drama	valley
suggest	protected	entire	
support	provided	exceptional	STEP 21—6%
through	queer	explained	6%
trouble	raiser	fault	account
turkey	realize	fitted	action
uniform	reduce	force	actor

advertisement	ourselves	convinced	submitted
allowed	personal	correct	suggested
although	planned	course	suitable
altogether	popular	deserve	supposed
appear	possess	district	terrible
applied	possibly	doesn't	ticked
appointment	prayer	doubt	volume
average	preacher	earnest	watched
avoid	product	employee	
ballot	prospect	entertaining	STEP 22—4%
based	really	ere	4%
believing	realizing	estimated	absolute
blessed	repeat	example	absolutely
calendar	require	expected	accept
cherries	retain	explain	accordance
choice	route	explaining	advised
college	saddle	federation	alley
common	sanitary	female	appearance
complete	satisfactory	foundation	appointed
congratulate	secure	general	arrive
consideration	secured	group	arrived
contemplated	separate	hauled	assuring
convention	settlement	headache	bonus
copies	silence	honestly	butcher
corporation	slippery	illustrated	canvass
correspondent	studies	include	capacity
couple	subscriber	included	carrier
cousin	surprised	invitation	certain
curtain	throughout	lbs.	circular
decide	traveling	lodge	compelled
decided	treatment	maintain	constantly
desiring	trial	mentioned	correction
earning	weight	million	crippled
eighteen	weren't	minute	cure
either	worrying	moral	democratic
election	worse	narrow	deposit
English	worst	noticed	depot
entered	5%	opinion	described
envelope	advertised	owner	directed
examination	affair	particular	disappointment
favorite	amounting	parties	disposal
figured	attractive	personality	earliest
forced	beauty	pertaining	elected
graduating	biggest	possible	entitled
hesitate	calm	preparation	evidently
holiday	cement	prepared	exactly
honor	central	private	exam.
hospital	chief	quoted	excuse
husband	cigar	reliable	exhibit
ironing	cities	reliability	expired
judge	combination	requesting	expensive
label	commence	reserve	expressed
mention	conduct	salary	fabric
neglect	congratulation	select	factory
notice	consequently	service	failure
notify	considered	sorrow	future
orange	considering	stories	

genuine	union	disease	occupied
graduate	urge	distribution	operating
guest	valuable	division	ordinary
handkerchief	welfare	dreadful	organization
happiness	worthy	durable	organized
headquarter	written	easily	original
immense	3%	employer	parcel
improvement	absence	entering	parent
inclined	accomplish	epidemic	period
increase	accommodate	equipped	practically
inquire	acquainted	error	practice
inquiry	administration	especially	premium
instead	adventure	established	prepare
instruct	agriculture	excellent	presume
investigation	allotment	excited	principal
jobber	animal	exciting	principle
judgment	anxious	expense	privilege
laugh	application	explanation	probably
lecture	appreciated	extensive	proceed
legal	arrange	factor	profitable
library	arranged	factories	promise
local	article	favorable	publication
manufacture	assembly	favored	rec'd
meant	assistant	feature	received
merely	athletics	figuring	recommend
nature	attended	freight	referred
neighbor	author	frequently	regardless
neighborhood	automatic	frozen	relieve
nervous	available	furnace	requirement
nickel	awfully	furnished	reservation
obligation	balance	garage	response
obtained	banquet	geometry	resulting
practical	bargain	ghost	Sabbath
practicing	brief	guarantee	salesman
procured	bulletin	guaranteed	satisfaction
produce	burden	imagine	satisfactory
progress	business	increased	secretary
purchase	carnival	identify	securing
purpose	cedar	indicate	sense
quality	certainly	inducement	society
receive	climate	immediately	straight
reference	collect	installment	subscription
referring	completely	instance	superintendent
refreshment	composition	institution	surplus
refused	concern	investigate	telephone
required	confirming	involved	thorough
respectfully	connected	journal	thoroughly
satisfied	connection	justified	timothy
search	conveniently	knowledge	usually
settled	co-operating	magazine	
signature	couldn't	material	
signed	council	materially	
special	crowded	measure	
surface	debt	mortgage	
sweater	difference	national	
theater	difficulty	naturally	
treasurer	direction	object	

STEP 23—2%

accordingly  
additional  
affectionately  
annual  
annually

anticipating  
 appendicitis  
 arrival  
 assessment  
 assure  
 assured  
 attempt  
 attendance  
 authorized  
 aware  
 beginning  
 canned  
 capable  
 certificate  
 chautauqua  
 Christian  
 circulation  
 circuit  
 circus  
 citizen  
 civics  
 coarse  
 collection  
 commission  
 commissioner  
 committee  
 communication  
 companion  
 complaint  
 concerning  
 concert  
 confidence  
 connected  
 connecting  
 conservatory  
 consultation  
 contemplating  
 contrary  
 co-operative  
 correctly  
 courage  
 creamery  
 current  
 cushion  
 customary  
 definite  
 deliveries  
 demonstrated  
 deserved  
 development  
 different  
 directly  
 domestic  
 doubtless  
 duties  
 effect  
 electrical

elsewhere  
 engineer  
 engineering  
 entertain  
 equipment  
 excess  
 exclusively  
 executive  
 exercise  
 exhibition  
 existing  
 experience  
 expression  
 extreme  
 fashion  
 finally  
 followed  
 fraternally  
 funeral  
 geography  
 glorious  
 gratitude  
 grocery  
 Hallowe'en  
 honorable  
 illustration  
 importance  
 impossible  
 influence  
 inquiries  
 inspector  
 insurance  
 interfere  
 issue  
 junior  
 language  
 legislation  
 liable  
 liberal  
 literature  
 machinery  
 medicine  
 mental  
 merchandise  
 moderate  
 musical  
 neglected  
 nephew  
 niece  
 organize  
 pardon  
 patient  
 permanent  
 politics  
 positive  
 preliminary  
 presence

production  
 proposition  
 purchased  
 qualities  
 quantity  
 readily  
 receiving  
 recess  
 recite  
 reduction  
 registered  
 registration  
 remembrance  
 representation  
 responsible  
 rough  
 rural  
 selected  
 senior  
 similar  
 sincere  
 social  
 solicit  
 strawberries  
 succeeded  
 success  
 successful  
 superior  
 supervision  
 system  
 telegram  
 territory  
 themselves  
 transportation  
 university  
 variety  
 weighed  
 wholesale  
 worried

#### STEP 24—1%

accident  
 accomplished  
 accredited  
 acknowledge  
 actual  
 actually  
 admission  
 advanced  
 advancement  
 algebra  
 analysis  
 anniversary  
 announce  
 appeared  
 appreciate

appreciation  
 approved  
 arriving  
 assigned  
 assignment  
 assistance  
 associated  
 association  
 assume  
 assurance  
 attraction  
 authority  
 avenue  
 barrel  
 calves  
 campaign  
 candidacy  
 celebrate  
 channel  
 choir  
 circumstances  
 commerce  
 commercial  
 community  
 companies  
 conclusion  
 conference  
 confirm  
 connect  
 consequence  
 considerably  
 constitution  
 construction  
 convenience  
 co-operation  
 cordial  
 cordially  
 corrected  
 correspond  
 crochet  
 crocheting  
 coupon  
 dangerous  
 decision  
 decrease  
 definitely  
 design  
 destination  
 discourage  
 duplicate  
 efficiency  
 efficient  
 electricity  
 enormous  
 enthusiasm  
 enthusiastic  
 essential

evidence  
examine  
examined  
examiner  
exception  
exceptionally  
exhausted  
expecting  
extended  
extension  
famous  
fashionable  
favorably  
fierce  
financial  
furniture  
generous  
government  
gradually  
grippe  
hastily  
humor  
hustling  
illustrating  
immediate  
impression  
inconvenience  
individual  
institute  
instruction  
instructor  
instrument  
introduced  
introduction  
issued  
license  
lieutenant  
liquid  
mechanical  
necessary  
necessity  
neither  
notary  
notified  
numerous  
official

opportunity  
orchestra  
originally  
particularly  
physician  
pneumonia  
politician  
possession  
previous  
produced  
prosperity  
receipt  
reception  
reduced  
regretting  
regularly  
relationship  
relieved  
remained  
remittance  
representative  
resigned  
resource  
scarce  
science  
selection  
series  
serious  
sincerely  
soliciting  
specially  
stationary  
stomach  
straightened  
strength  
strictly  
struggle  
studied  
substitute  
succeed  
sufficient  
supervisor  
supplies  
surgery  
sympathy  
tuberculosis

type  
universal  
unusually  
usual  
vision  
zephyr

STEP 25—0%

acceptance  
accompanying  
acquaintance  
acquire  
activity  
advisable  
affidavit  
agency  
agricultural  
alumni  
ambitious  
announcement  
anticipate  
apparatus  
appreciating  
approval  
arrangement  
associate  
attitude  
attorney  
auditor  
blizzard  
bureau  
character  
characteristic  
collecting  
compliment  
confirmation  
continuous  
convenient  
correspondence  
courteous  
demonstration  
description  
difficult  
disagreeable  
disappoint

disappointed  
encourage  
equally  
exact  
excitement  
executed  
extremely  
familiar  
foreign  
fortunate  
fundamental  
generally  
inferior  
ingredients  
leisure  
majority  
manufacturing  
maturity  
mountain  
natural  
occasion  
occasionally  
peculiarities  
personally  
phosphorus  
physical  
possibility  
prevail  
process  
profession  
professional  
prosperous  
qualities  
quotation  
recommendation  
responsibility  
rheumatism  
schedule  
scientific  
source  
specification  
unnecessary  
unusual  
various  
vicinity





**SECTION X**

**THE IOWA SPELLING SCALE**

**GRADE III**

## GRADE III

STEP 1—100%		92%	boy	looking
in			cannot	make
STEP 2—99%			hand	much
is			run	must
STEP 3—98%			sent	pay
			we	put
		87%		sand
are			ago	sat
good			as	six
he			down	snow
it			home	sun
			so	yet
STEP 4—96%			toy	83%
		91%	when	
97%	an		STEP 8—84%	after
can	for		86%	bed
my	his			bring
see	like			cold
that	man		age	cow
96%	some		bell	far
and	the		door	foot
be	them		from	ill
book	up		letter	just
day	way		live	kill
she			night	made
	STEP 7—88%		or	meat
	90%		red	they
STEP 5—94%			thing	top
95%	big		till	week
all	gold		us	82%
at	got			
but	had		bee	back
did	her		box	ball
do	of		came	black
little	over		coat	call
not	think		forget	doing
out	this		going	five
was	tree		most	gave
you	wood	89%	three	grass
			throat	green
94%	ask		well	hard
dear	give		what	has
dog	how			ink
eat	if		84%	lot
go	land		apple	mother
me	last		bad	Mr.
old	let		cat	playing
to-day	look		fast	ring
year	love		fish	ship
	tell		grade	Sunday
STEP 6—92%	ten		hat	tent
93%	then		king	thank
ice		88%	light	there
will	being		long	wind

STEP 9—79%		singing	song	glad
81%		tenth	soon	here
about		too	spell	hunt
am		town	standing	mine
baby		war	start	note
bank			state	sad
bay		73%	told	shop
best		along	two	sold
each		aside	under	stand
feet		car	want	stop
fill		colder	why	table
food		face	within	thanking
hill		fat		to-night
him		girl		wall
inside		goat	STEP 10—73%	win
lay		hall	76%	74%
May		house	add	bid
more		lake	bear	cap
seeing		late	calling	eye
send		left	card	Feb.
sheep		March	care	first
without		off	corn	flat
work		oil	fall	help
yes		once	find	hot
	80%	rain	four	Jan.
away		same	happy	Miss
boat		stay	hear	nice
butter		take	hold	our
cake		very	joy	pink
cent			keep	print
cut		77%	kind	real
ever		backing	longer	said
free		band	low	saw
lost		belong	never	seen
Monday		blow	park	spent
morning		cup	pen	to
new		end	pin	willing
no		fell	plan	yard
pig		fine	room	73%
place		flower	seed	better
read		fun	sleep	bill
stove		grand	spelling	east
sweet		hay	sport	forget
went		its	stone	goldfish
west		mad	summer	lived
working		now	upon	lives
	79%	nut	where	many
become		overcoat		myself
child		papa	75%	net
hen		part	able	nine
milk		pine	around	noon
name		ride	banker	open
pie		rust	cover	river
poor		side	dad	rock
rich		silk	every	set
school		sister	farm	show
		snowing	Friday	sick
		son	game	

soft  
window  
winter

72%

any  
baker  
blue  
city  
cook  
dance  
die  
dinner  
gate  
head  
helping  
inch  
kiss  
maker  
mate  
mill  
near  
older  
paper  
picking  
post  
rent  
rose  
shot  
store  
thin  
tip  
were  
who  
wide

71%

bird  
brother  
date  
even  
felt  
finding  
forgive  
found  
gone  
kid  
landing  
life  
pick  
plow  
seven  
slow  
stage  
still  
stood  
supper  
telling

washing  
wish

70%

afternoon  
barn  
became  
can't  
children  
cream  
deep  
drive  
dust  
faster  
father  
gray  
heat  
hit  
hog  
hour  
large  
mark  
mud  
oh  
outside  
page  
price  
rest  
round  
sell  
spring  
train  
true  
trust  
water  
wife

STEP 11—66%

69%

ate  
beside  
bit  
clear  
close  
cost  
could  
dress  
drop  
fishing  
given  
ground  
Oct.  
other  
rate  
road  
rug  
saying

step  
test  
wanting

68%

arm  
asking  
bat  
behind  
below  
brand  
bright  
danger  
dark  
fair  
feed  
fit  
June  
lady  
lone  
mail  
north  
nothing  
order  
race  
rolling  
sin  
sit  
spot  
starting  
teach  
teacher  
thinking  
try  
walk  
yourself

67%

art  
banking  
been  
blank  
both  
clay  
Dec.  
fort  
glass  
hair  
however  
master  
Nov.  
plate  
Sat.  
seat  
shut  
something  
stick  
street  
teeth

those  
took  
walking  
which  
white  
write  
yellow

66%

adding  
air  
alive  
belonging  
cane  
cattle  
clock  
coming  
done  
don't  
fire  
ford  
form  
garden  
gather  
handed  
holding  
kindly  
leave  
ma  
making  
market  
meal  
pa  
paying  
reading  
report  
stamp  
whatever

65%

added  
author  
bet  
born  
bunch  
cool  
hers  
hunting  
income  
January  
lame  
met  
mind  
move  
right  
rush  
sending  
sort  
south

such	eve	nor	harder
talk	farmer	ours	holder
wake	fear	pass	jump
wild	few	past	kitten
64%	fight	pencil	looked
ahead	finger	please	meet
bean	July	porch	October
buy	longest	post card	only
camp	luck	posted	pain
cash	mean	rail	pillow
class	news	raining	pole
delay	nose	saved	roll
drum	own	shoe	sis
feeding	party	small	sixty
handy	per	space	someone
horse	poorly	sugar	staying
later	reader	than	taken
lift	rice	their	talking
neck	sack	whenever	while
next	safe	worker	wonder
pack	sink	yearly	wool
peach	sir	60%	58%
rank	smart	always	army
short	tank	apart	case
slip	tend	asked	chop
snowed	thereafter	bite	church
storm	tiny	block	darling
these	trip	body	December
wet	weak	cloth	everything
65%	wishing	count	forest
also	would	cross	gift
brick	61%	dream	glove
cast	another	fifty	goose
clean	April	football	half
cooking	asleep	great	happen
cord	blame	job	having
dandy	brush	loved	high
display	chair	month	leaves
flour	coal	nearly	matter
fur	contest	need	pound
ha	corner	none	rained
held	dead	outfit	seem
indeed	deal	queen	shade
mouth	dearly	shipment	shall
nap	died	sunshine	soap
roof	fellow	tie	sorry
sound	hang	Tuesday	stated
spend	hardly	wise	teaching
taking	hearing	won't	thought
track	herself	yesterday	twenty
	hole	59%	wash
	inasmuch	across	word
STEP 12—58%	kinder	afloat	world
68%	know	beat	57%
bringing	larger	begin	agree
draft	list	blood	alone
eight	miss	farming	anyone

anything  
basket  
bench  
content  
egg  
filling  
fix  
frost  
fruit  
grant  
growing  
kindest  
lie  
liver  
money  
oven  
peace  
reach  
renew  
row  
self  
should  
skate  
slide  
stock  
warm  
wheel

56%

again  
aunt  
belt  
called  
carpet  
check  
clothing  
damp  
enter  
floor  
gladly  
law  
marking  
Mrs.  
nobody  
oats  
orange  
pocket  
printed  
protest  
rabbit  
renter  
silver  
third  
thread  
thus  
tile  
wishes

55%  
birthday  
Christmas  
cleaning  
closer  
evening  
gland  
grandma  
hundred  
lace  
least  
noted  
number  
otherwise  
pair  
planted  
plum  
pull  
pure  
quart  
ranch  
saver  
sew  
snap  
sometime  
speed  
spending  
tested  
worked

## STEP 13—50%

54%  
badly  
because  
bought  
brought  
cheer  
chill  
club  
covering  
crop  
dearest  
drill  
everyone  
fee  
grandfather  
himself  
inclose  
invited  
itself  
leg  
less  
load  
lump  
might  
November

oldest  
packing  
passing  
point  
ready  
recall  
rented  
riding  
rod  
says  
sight  
somewhat  
sore  
stranger  
swell  
township  
treat  
use  
wanted  
washed

53%

boxes  
branch  
chart  
earth  
farther  
folk  
grain  
I'll  
inform  
keeping  
mend  
mostly  
penny  
powder  
pride  
quick  
render  
saving  
selling  
sheet  
sooner  
team  
training  
trusting  
welcome  
wheat  
whereby  
worth

52%

above  
battle  
begun  
cared  
chain  
charge  
closed

color  
creep  
deed  
dresser  
heating  
homesick  
hoping  
island  
leader  
learn  
maid  
oblige  
opened  
overlooked  
rack  
shape  
spoke  
stunt  
thankful  
trade  
wage  
Wednesday

51%

bother  
bugs  
carry  
counting  
country  
crib  
deliver  
early  
easy  
eighty  
finish  
folder  
former  
forth  
greeting  
hate  
hereafter  
lovely  
lumber  
mailed  
mamma  
paint  
person  
proper  
proud  
railroad  
shed  
soil  
steam  
study  
thick  
throw  
twice  
unless

wagon	tire	speaker	housekeeping
youth	trying	ton	invite
50%	48%	travel	inviting
booklet	anyhow	trunk	leaf
brown	before	used	learned
candle	Bible	velvet	liked
depend	broke	wire	loaded
does	copy	46%	loud
grew	coy	afraid	painter
grind	drew	almost	pending
intend	feeder	began	played
killed	front	behalf	pleasure
lighting	heard	between	plenty
lose	herewith	chicken	press
maple	higher	closing	reached
meeting	hoped	dice	simple
nearer	household	enjoy	sleet
opening	listed	fail	Thursday
payment	match	fifteen	together
pools	mister	flesh	tried
pretty	moment	frame	unable
remark	picture	funny	waited
seventy	post office	grip	weather
stair	remind	grown	woman
understanding	rule	inclosed	wrong
walked	seal	junk	44%
weekly	shame	kindness	beet
young	speak	kisses	board
49%	stating	laugh	calf
all right	sum	lesson	cleaned
bog	tax	liberty	company
boss	ticket	living	cotton
bottle	turn	maybe	dare
brain	wear	named	Dr.
busy	47%	neat	everybody
coffee	catch	painted	feeling
colt	change	pleased	filled
doctor	cleaner	printer	gas
fence	clever	shortly	harvest
file	death	strongest	improve
forty	dread	watch	inches
fresh	drug	won	joke
glee	garment	woven	joyful
granted	gee		largest
handle	gown		likewise
I'm	iron	STEP 14—42%	membership
lunch	knew	45%	newspaper
moving	main	ans.	odd
partly	member	anyway	pump
people	merry	blew	regard
printing	moved	branches	regret
renting	needing	broken	retail
September	nineteen	buying	rubber
seventh	remove	demand	scout
sixth	rip	French	sewing
size	sash	getting	sock
	scrap	grove	somewhere



started  
strike  
turkey  
voter  
western  
writing  
wrote

43%

auto  
charming  
chose  
dated  
drilling  
enclosed  
fling  
finest  
handling  
helpful  
hurt  
I'd  
idea  
insist  
latter  
leather  
lower  
mighty  
office  
plain  
present  
quite  
recover  
removed  
running  
smaller  
that's  
Tues.

42%

afterward  
amount  
birth  
classes  
friend  
glasses  
globe  
grip  
handsome  
hurry  
learning  
needed  
patch  
postage  
quickly  
return  
Saturday  
second  
Sept.

sure  
twelve  
understand  
worm  
you'll

41%

act  
agent  
among  
ashamed  
Aug.  
Ave.  
awhile  
cause  
chairman  
cooler  
delighted  
extent  
fourth  
fully  
heat  
herein  
jar  
likely  
loving  
music  
phone  
potatoes  
power  
prize  
profit  
prove  
range  
reaching  
respond  
sale  
sample  
steel  
until  
wedding  
women

40%

already  
answer  
anybody  
anywhere  
boiler  
burn  
chance  
cloudy  
dose  
dozen  
dressed  
fifth  
follow  
frankly  
fund

gallon  
hardware  
insert  
knowing  
known  
latest  
meantime  
monthly  
nation  
program  
raw  
settle  
sitting  
slipper  
taste  
trace  
waiting  
whom  
writer  
Xmas.

39%

address  
beef  
beg  
chum  
crowd  
damage  
discount  
duty  
feel  
knot  
linen  
loss  
manage  
packed  
painting  
perhaps  
remit  
retain  
since  
slept  
suit  
therefore  
title  
uncle  
visit  
vote  
workmanship

38%

baking  
bushel  
coin  
cottage  
debate  
gotten  
greater  
limb

lonely  
noise  
regarding  
reply  
reported  
seller  
sickness  
utmost  
weary  
wished

STEP 15—34%

37%

base  
building  
buyer  
coach  
comply  
deeply  
delightful  
dirty  
during  
fact  
fairly  
forward  
guess  
hare  
heavy  
hereby  
history  
informed  
join  
listen  
manner  
minute  
movement  
namely  
ordering  
organ  
ought  
payable  
prevent  
provided  
quit  
reason  
remain  
seemed  
skating  
thereof  
tight  
trained  
whole  
witch  
withdraw  
worst

36%	haven't	permit	crazy
adjust	highest	raised	earning
backed	inclosing	rushed	elect
bottom	outlined	score	expert
buggy	placing	shoulder	extra
button	remember	soldier	finished
catalogue	serve	waist	forgotten
caused	share	waste	formed
checking	single	wonderful	forwarding
clearly	skirt	zone	hotel
county	strongly	32%	item
cutting	thirty	acting	I've
dancing	toward	build	level
depending	visiting	builder	lining
eighteen	34%	changed	lonesome
field	advise	comfort	narrow
friendly	agreed	debating	ninety
further	break	delivered	parlor
habit	Bro.	desire	picnic
isn't	choose	disposed	proof
lamb	coast	eleventh	recovered
leaving	court	enough	returned
lucky	devoted	exchange	season
mailing	dollar	fourteen	served
misses	figure	froze	shipping
mistake	film	fullest	thousand
nerve	frozen	gum	truly
nevertheless	gravy	greatest	upper
owing	handled	homestead	
pearl	kept	independent	STEP 16—27%
proved	letting	inspect	30%
quarter	performed	labor	advice
ribbon	repeat	lowest	barrel
setting	scale	needle	broad
showed	shopping	nicely	careful
spread	submit	ninth	caught
talked	through	officer	charged
Thanksgiving	value	oversight	cheaper
tired	33%	owe	cheerful
tread	carrying	placed	credit
treated	changing	providing	eager
wait	collar	quiet	else
watching	daddy	reaches	enclose
35%	dealing	server	enjoying
August	dispose	shone	February
awaiting	edge	simply	foolish
bigger	fancy	square	helped
bulk	fever	stuff	invoice
center	fitting	though	nickel
chapter	forwarded	understood	nurse
daily	illness	voting	plainly
enclosing	intended	whether	provide
express	kitchen	51%	raising
failed	lung	absent	recite
family	mass	await	record
fixed	obliged	clerk	scare
	o'clock		

sign  
slight  
struck  
vacation  
worry

29%

admit  
alfalfa  
answered  
breakfast  
checked  
cherries  
covered  
dealer  
enjoyed  
explain  
extend  
German  
laid  
Latin  
losing  
pavement  
per cent  
prevented  
proven  
queer  
raise  
recent  
recess  
remembering  
request  
rough  
sire  
smooth  
supply  
temple  
to-morrow  
turned  
unpaid  
using  
worse  
yoke

28%

built  
cheap  
colored  
consist  
decline  
delayed  
fern  
gain  
haste  
ideal  
joined  
ladies  
locate  
lovingly

middle  
notice  
passed  
patent  
phoned  
pupil  
putting  
repair  
saddle  
stayed  
studying  
taught  
taxes  
touch  
united  
valued  
voice  
we'll

27%

addresses  
aid  
attend  
blessed  
booth  
bridge  
carefully  
coasting  
confined  
contain  
detail  
entry  
factory  
furnishing  
happened  
holiday  
including  
instead  
investment  
largely  
loose  
ocean  
respect  
returning  
ruin  
secure  
standard  
statement  
suffering  
surprise  
throughout  
useful  
vary  
violin  
zero

26%

aim  
amounting

artist  
beyond  
bowl  
closely  
continue  
contract  
cure  
delivery  
dreadful  
ease  
explained  
favor  
force  
gaining  
gentleman  
graze  
health  
hence  
honest  
improving  
limit  
married  
preacher  
properly  
public  
refund  
serving  
shock  
spare  
stamped  
trouble  
watched  
wearing  
wondering

25%

acted  
amply  
ankle  
answering  
balance  
barley  
blooming  
captain  
clothe  
common  
control  
cough  
crew  
dairy  
didn't  
either  
entering  
excuse  
forenoon  
good-bye  
greatly  
instant

loan  
offering  
package  
perfect  
piano  
problem  
promise  
rainy  
recently  
renewed  
requested  
stories  
towel

24%

active  
adjustment  
billed  
circus  
cousin  
cripple  
dodge  
figured  
friendship  
furnish  
hasn't  
hello  
industry  
inst.  
interesting  
lately  
management  
mention  
model  
obtained  
ordered  
owned  
primary  
prior  
property  
rapid  
refuse  
suitable  
text  
whose  
wouldn't

STEP 17—21%

23%

advance  
aren't  
breaking  
carried  
cellar  
contained  
containing  
explaining

formerly  
freeze  
gentlemen  
group  
guide  
headquarter  
interest  
language  
manager  
message  
pastor  
postal  
presented  
slightly  
sorrow  
talent  
treatment

22%

abstract  
actor  
animal  
attending  
bluff  
boarding  
dependent  
earnest  
enroll  
entered  
fare  
firm  
headache  
healthy  
pattern  
publisher  
rye  
seldom  
steady  
studies  
surface  
term  
transit

21%

adopted  
against  
agreeable  
allow  
amendment  
attach  
automobile  
bass  
believe  
burden  
chief  
degree  
desired  
discovered  
English

entertaining  
entire  
ere  
etc.  
except  
flavor  
following  
hurried  
improved  
jury  
maintain  
method  
owner  
promised  
represented

strict  
suppose  
tract  
traveling  
visited  
wasn't  
winner  
written  
you'd  
yourselves

20%

addition  
adjusted  
advantage  
advertised  
alley  
aware  
beauty  
cabinet  
client  
constant  
convention  
decided  
department  
deserve  
direct  
dwelling  
enrolled  
female  
figuring  
fitted  
gained  
growth  
honestly  
honor  
increasing  
limited  
located  
machine  
missed  
modern  
northern

prompt  
quoted  
rapidly  
receive  
refreshment  
rendered  
replying  
require  
search  
silence  
situation  
splendid  
stopped  
weigh

19%

advising  
apply  
argument  
booster  
cigar  
confident  
creamery  
due  
favorite  
fortune  
fuel  
furnace  
furnished  
guest  
handkerchief  
husband  
important  
include  
included  
installed  
ironing  
jobber  
minister  
normal  
obtain  
planning  
pleasant  
promotion  
protected  
question  
realize  
refer  
represent  
required  
satisfied  
select  
settlement  
several  
station  
student  
subject  
support

tattooing  
uniform  
worrying

STEP 18—16%

18%

addressed  
attain  
avenue  
avoid  
butcher  
cartoon  
climate  
companion  
couple  
described  
employed  
enrollment  
example  
final  
information  
intention  
interested  
lecture  
lodge  
mentioned  
notion  
offered  
operated  
popular  
prepared  
procured  
Prof.  
prospect  
raiser  
refused  
republican  
reserve  
safety  
semester  
settled  
slippery  
spirit

17%

although  
benefit  
biggest  
calm  
carrier  
comfortable  
condition  
democrat  
desiring  
effort  
election  
entertainment

expressed  
fault  
grocery  
hadn't  
human  
instructed  
ivory  
length  
local  
loyal  
nature  
piece  
prepaid  
produce  
really  
relation  
rifle  
shipper  
sweater  
weighed

16%

ambition  
average  
bargain  
blackberries  
consider  
considering  
contemplated  
conversation  
daughter  
decide  
depot  
directed  
direction  
director  
discontinued  
disgusted  
doesn't  
education  
entirely  
federal  
future  
garage  
grateful  
inquiry  
lbs.  
parties  
patron  
pertaining  
prayer  
promptly  
result  
route  
service  
shipped  
struggle  
surprised

theater  
tickled  
topic  
vacant  
we've

15%

advertisement  
advertising  
altogether  
appear  
based  
bracelet  
canned  
choice  
combination  
correct  
customer  
cute  
destroyed  
district  
drama  
entitle  
equally  
expired  
gasoline  
importance  
increased  
international  
madam  
manual  
measure  
meter  
misunderstanding  
moral  
mountain  
neglect  
neither  
object  
organized  
ourselves  
pardon  
perfectly  
president  
publication  
published  
purpose  
reasonable  
reduction  
regardless  
relationship  
renewal  
requesting  
resident  
resulting  
salesman  
satisfactory  
scarce

separate  
valley

14%

adventure  
advertise  
affair  
applied  
assist  
auntie  
barely  
basis  
candidate  
capable  
capital  
concluded  
conduct  
confer  
consideration  
continued  
copies  
course  
excited  
expecting  
factor  
fashion  
forced  
judge  
library  
manufacture  
operation  
parent  
product  
quote  
relative  
reputation  
Sabbath  
studied  
style  
tanning  
view  
weight

STEP 19—12%

13%

ache  
action  
advised  
appointment  
arrange  
braid  
certainly  
choosing  
considerable  
couldn't  
credited  
disposal

doubt  
exciting  
extended  
famous  
followed  
foundation  
freight  
general  
girlie  
graduating  
graduation  
heir  
inclined  
inspector  
location  
meant  
parcel  
period  
personal  
positive  
prefer  
production  
realizing  
salary  
sanitary  
satisfaction  
secured  
selection  
stomach  
success  
telegram  
telephone  
total  
welfare  
worthy

12%

advanced  
assure  
attention  
believing  
central  
coarse  
college  
complaint  
complete  
congratulation  
considered  
constantly  
contrary  
convince  
different  
duties  
easily  
elected  
equipment  
exam.  
existing

expected  
failure  
favorable  
heretofore  
inquire  
invitation  
justify  
literary  
niece  
personality  
preparation  
prepare  
priced  
produced  
regular  
remedy  
respectfully  
responsible  
sense  
signed  
strawberries  
superintendent  
transfer  
X-ray

11%

ability  
appeal  
athletics  
awful  
calendar  
capacity  
cedar  
concern  
concert  
conference  
congratulate  
correction  
courage  
curtain  
duplicate  
durable  
employee  
entertain  
evidently  
explanation  
ghost  
identify  
increase  
installment  
institution  
label  
liquid  
mere  
opera  
position  
possess  
possible

progress  
reference  
register  
remembered  
section  
straight  
surplus  
themselves

10%

absolute  
according  
agency  
appeared  
applicant  
arrived  
attached  
automatic  
beginning  
cement  
commence  
concerning  
convinced  
co-operating  
corporation  
crowded  
data  
develop  
directly  
engineer  
envelope  
exactly  
exhibit  
fabric  
grammar  
happiness  
hesitate  
hospital  
indicate  
influence  
instruct  
internal  
investigation  
justified  
million  
neglected  
nephew  
noticed  
policy  
presume  
private  
proposition  
rec'd  
reduced  
registered  
regulation  
reliable  
securing

suggested  
treasurer  
trial  
valuable  
volume  
worried

STEP 20—8%

3%

absolutely  
account  
administrator  
arrive  
assured  
banquet  
certain  
choir  
companies  
composition  
confirming  
deliveries  
democratic  
deserved  
distribution  
earliest  
elsewhere  
establish  
established  
examination  
extensive  
factories  
funeral  
genuine  
geography  
hailed  
honorable  
improvement  
neighborhood  
nervous  
obligation  
organize  
practice  
quality  
received  
registration  
reliability  
relieve  
selected  
strength  
subscriber  
thesis  
thorough  
union

8%

absence  
acre

arranged  
article  
assuring  
attended  
attraction  
attractive  
calves  
canvass  
carnival  
cashier  
Christian  
cities  
collect  
connect  
connected  
consequently  
council  
current  
deposit  
description  
design  
disappointment  
entitled  
exception  
favored  
instance  
involved  
literature  
machinery  
merit  
mortgage  
ordinary  
particular  
preliminary  
preparing  
prevail  
proceed  
recommend  
representation  
requirement  
resigned  
satisfactorily  
satisfy  
secretary  
signature  
suggest  
supplied  
supplies  
universal

7%

additional  
allowed  
application  
assistant  
attempt  
authorized  
brief

channel  
collection  
completely  
confidence  
connection  
co-operation  
cushion  
dangerous  
debt  
destination  
difference  
division  
employer  
exact  
exceptional  
excitement  
exercise  
expense  
expensive  
expression  
extreme  
feature  
fraternally  
furniture  
graduate  
hastily  
illustrated  
inducement  
instruction  
insurance  
introduced  
legal  
legislation  
magazine  
medicine  
musical  
national  
notary  
notify  
occupied  
operating  
opinion  
organization  
patient  
permanent  
possibly  
practical  
probably  
profession  
receiving  
reception  
reduce  
remembrance  
reservation  
rural  
special  
straightened

submitted  
supposed  
terrible  
urge  
weren't  
wholesale

STEP 21—6%  
6%

accept  
accomplish  
agriculture  
announce  
assigned  
assortment  
ballot  
bulletin  
celebrate  
circuit  
circular  
collecting  
communication  
community  
compelled  
confirm  
correspond  
correspondent  
decrease  
demonstrated  
disagreeable  
engincer  
error  
estimated  
evidence  
excess  
experience  
fierce  
frequently  
geometry  
gratitude  
guaranteed  
hustling  
imagine  
junior  
knowledge  
material  
mental  
merchandise  
merely  
neighbor  
numerous  
original  
planned  
quantity  
referring  
remittance  
representative

similar  
society  
succeeded  
university  
variety  
vision

5%

accordance  
acknowledge  
acquire  
allotment  
alumni  
anniversary  
anxious  
attorney  
available  
awfully  
bonus  
citizen  
commerce  
committee  
constitution  
contemplating  
conveniently  
correctly  
correspondence  
coupon  
difficulty  
domestic  
doubtless  
effect  
electrical  
examine  
exclusively  
fashionable  
federation  
generally  
glorious  
government  
humor  
illustrating  
immediate  
immediately  
impossible  
inconvenience  
inquires  
issue  
issued  
judgment  
liable  
liberal  
moderate  
notified  
occasion  
official  
politics  
principle

privilege  
process  
prosperous  
readily  
regularly  
serious  
social  
subscription  
successful  
surgery  
sympathy  
timothy  
type  
usual

STEP 22—4%

4%

acceptance  
accident  
acquainted  
actual  
advancement  
affectionately  
algebra  
annual  
appearance  
appointed  
appreciated  
assignment  
assistance  
assume  
assurance  
blizzard  
bureau  
business  
certificate  
character  
circulation  
circumstances  
conclusion  
connecting  
conservatory  
considerably  
convenience  
cordially  
crocheting  
customary  
decision  
definitely  
development  
disease  
efficient  
electricity  
enthusiasm  
epidemic  
examined

excellent  
executed  
executive  
exhausted  
familiar  
finally  
generous  
illustration  
instructor  
investigate  
journal  
materially  
naturally  
opportunity  
personally  
physician  
practically  
premium  
principal  
profitable  
purchased  
qualities  
quotation  
recommendation  
referred  
response  
science  
series  
sincere  
strictly  
succeed  
sufficient  
superior  
system  
thoroughly  
transportation  
unusually  
various

3%

accommodate  
accordingly  
activity  
affidavit  
approval  
approved  
arrangement  
arrival  
arriving  
assessment  
association

attendance  
civics  
convenient  
cordial  
corrected  
definite  
difficult  
disappoint  
discourage  
efficiency  
encourage  
enormous  
equipped  
especially  
examiner  
exhibition  
extension  
favorably  
guarantee  
impression  
instrument  
interfere  
librarian  
manufacturing  
practicing  
presence  
purchase  
receipt  
relieved  
remained  
sincerely  
solicit  
specification  
stationary  
supervision  
territory  
usually  
vicinity  
zephyr

STEP 23—2%

accompanying  
accredited  
actually  
administration  
admission  
agricultural  
announcement  
anticipating

appreciate  
assembly  
auditor  
authority  
campaign  
candidacy  
commercial  
commission  
commissioner  
compliment  
consequence  
construction  
consultation  
co-operative  
crochet  
demonstration  
disappointed  
enthusiastic  
financial  
gradually  
grippe  
immense  
inferior  
institute  
introduced  
lieutenant  
mechanical  
natural  
necessity  
originally  
particularly  
previous  
professional  
prosperity  
regretting  
rheumatism  
source  
substitute  
supervisor  
unnecessary  
unusual

STEP 24—1%

accomplished  
acquaintance  
ambitious  
analysis  
annually

apparatus  
appendicitis  
appreciation  
associate  
associated  
attitude  
characteristic  
chautauqua  
confirmation  
continuous  
courteous  
exceptionally  
extremely  
fundamental  
Hallowe'en  
individual  
ingredients  
leisure  
majority  
maturity  
necessary  
orchestra  
pneumonia  
politician  
possibility  
quantities  
resource  
responsibility  
schedule  
senior  
soliciting  
specially

STEP 25—0%

advisable  
anticipate  
appreciating  
essential  
foreign  
fortunate  
license  
occasionally  
peculiarities  
phosphorus  
physical  
possession  
scientific  
tuberculosis





**SECTION XI**

**THE IOWA SPELLING SCALE**

**GRADE IV**

## GRADE IV

<b>STEP 1—100%</b>	hand in into last let letter may mother must not old on one over say she that think this way when will with	why wind your	96%	had hat head Jan. longer pay place poor ring river same send some summer sweet table then time to-night us wish work working
all at did dog me thank thing to-day		an cake cent city corn down five food free going gold hard her how live looking man my read reader red sand south tell ten we		
<b>STEP 2—99%</b>		<b>STEP 4—96%</b>		
and are big book but day dear good have he his is it land like little look May out run see ship tree up was what year you	97%	apple bell butter by cook door eat green ice if left love made make milk night said school six snow state Sunday them they three top under	<b>STEP 5—94%</b>	
			95%	
<b>STEP 3—98%</b>		about after age ago baby bank bill box dark date dinner do doing east ever face foot from frost gave		am bad bed bee cannot coat end fast faster Feb. for has him just kind king Monday Nov. of papa pig play real ride road Sat. seeing silk stove sun
as away be boy can come each get give go got				

till  
two  
wall  
where  
wood  
yet

STEP 6—92%

93%

along  
ask  
black  
blank  
call  
child  
clean  
clock  
could  
cow  
cut  
eye  
home  
hot  
however  
inside  
kiss  
lake  
life  
light  
Mr.  
much  
name  
near  
never  
nice  
number  
Oct.  
off  
once  
overcoat  
playing  
price  
rich  
room  
store  
thinking  
toy  
walking  
well  
who  
winter  
yard

92%

art  
aside  
back

ball  
below  
best  
bird  
blow  
card  
cat  
clear  
cold  
cream  
cup  
far  
farm  
feet  
found  
fun  
fur  
hall  
happy  
hear  
inch  
joy  
lady  
large  
lay  
lived  
lot  
March  
mark  
more  
mouth  
move  
no  
note  
October  
oil  
report  
rest  
saw  
small  
stage  
stand  
telling  
thanking  
told  
town  
want  
week  
yellow

91%

air  
band  
banker  
hay  
belong  
beside  
better

blue  
came  
coal  
cover  
fat  
forget  
game  
girl  
gone  
hang  
help  
house  
ink  
July  
June  
keep  
kid  
looked  
lost  
low  
nine  
noon  
open  
page  
park  
pen  
post  
put  
rain  
reading  
sat  
sell  
sent  
show  
side  
singing  
sister  
so  
sport  
standing  
stay  
stick  
supper  
there  
trip  
very  
water  
while  
win  
window  
yes

STEP 7—88%

90%

any  
around

bunch  
cap  
car  
case  
country  
delay  
drive  
fellow  
fill  
fine  
gate  
goldfish  
grade  
helping  
hill  
hog  
horse  
hour  
hunt  
late  
long  
meat  
most  
next  
nut  
outside  
peach  
people  
pie  
plow  
saying  
shop  
snowed  
song  
spent  
sunshine  
take  
took  
walk  
war  
wash  
went  
whatever  
wife  
without  
worker  
write

89%

bake  
bear  
deep  
earth  
fell  
felt  
flat  
forgot  
grass

ground	mail	sugar	stood
hen	maker	taking	street
ill	market	tank	teacher
larger	meal	teaching	wild
leave	mine	trunk	wishing
lunch	money	wheel	85%
new	mud		adding
north	now	STEP 8—84%	also
oh	or	86%	barn
older	our		bean
part	pick	block	boat
paying	pin	body	camp
rock	rail	cattle	colder
sheep	rent	clay	dead
sir	rice	close	deal
snowing	row	count	don't
such	seat	crop	feed
taken	seen	dad	first
teach	set	dandy	fort
test	shipment	December	glass
the	son	die	January
weak	stop	dust	job
willing	tent	eight	know
within	train	farmer	leg
word	trust	fishing	many
would	87%	flower	mate
yourself	add	gather	music
88%	added	hay	nobody
able	asking	heat	plan
afternoon	bat	holding	race
alive	because	inasmuch	reach
arm	become	master	recall
asked	being	mill	rust
banking	brand	Miss	sad
basket	bright	neck	saved
born	brother	nothing	seven
bring	calling	oats	shall
can't	class	order	short
care	danger	outfit	should
children	egg	oven	slow
dance	fire	pine	staying
dress	fish	point	talking
drop	form	porch	tenth
early	glee	pure	trying
even	lives	quick	upon
fall	luck	railroad	washing
finding	meet	round	watch
Friday	morning	sack	wheat
grand	myself	seed	wool
handy	net	sick	84%
here	paper	smart	above
hold	party	space	battle
hunting	plate	spot	been
landing	print	spring	birthday
law	sleep	stamp	bringing
loved	spell	starting	brought
mad	step	still	brown

catch	remove	speak	wonder
chair	renew	talk	yesterday
church	rush	tip	80%
forgive	shoe	twenty	alone
four	sixty	unless	always
glad	someone	used	apart
island	sound	velvet	ate
kill	speaker	wet	bet
kindly	thin	white	between
lesson	thus	worked	Bible
longest	to	world	board
ma	were		both
other	whenever	STEP 9—79%	broke
ours	wide	81%	change
own	82%		cool
pink	agree	again	cord
pocket	anyone	ahead	covering
pole	Aug.	another	cross
recover	aunt	belonging	drum
sink	backing	blood	eve
spelling	became	boss	everyone
start	blame	bother	fair
stone	bought	cane	find
than	boxes	cleaner	floor
too	buy	clothing	follow
true	charge	contest	granted
Tuesday	Christmas	dearest	herewith
warm	died	death	high
washed	done	display	I'm
won't	football	doctor	inches
yearly	given	dresser	income
85%	grandma	evening	learned
April	grant	fifty	less
behind	gray	fight	listed
cared	hardly	ford	liver
carpet	hearing	hair	load
cash	heating	harder	maid
cooking	held	having	mailed
cost	hit	homesick	mean
counting	kinder	inclose	nap
dearly	making	later	none
draft	might	lone	pa
every	moved	noted	pain
farming	paint	patch	per
father	pass	post card	plum
finger	passing	renter	rained
forest	person	rose	removed
glove	picking	shot	shape
great	rate	sin	sight
grove	remark	soon	slip
half	right	sum	sorry
harvest	safe	swell	started
hole	sit	these	tie
kitten	soil	thick	wagon
lump	sold	thought	wake
please	sometime	travel	wanted
printed	sort	weather	

wear	list	saver	75%
young	lumber	sixth	bit
79%	marking	something	blew
asleep	matter	thereafter	branch
begin	nation	thousand	chart
behalf	nearly	tiny	chop
cleaning	neat	try	closer
darling	officer	which	crib
deed	otherwise	whole	does
feeding	overlooked	worth	dollar
fence	pound		drug
fit	printer	STEP 10—73%	everybody
former	proper	76%	glasses
garment	roof	afterward	heard
goat	sample	amount	holder
ha	sanding	beg	I'll
handed	seventh	bench	intend
handle	shade	bite	keeping
invited	silver	calf	kindest
its	size	clever	liberty
jump	somewhere	depend	lovely
leather	speed	dream	merry
mend	spending	drew	mighty
pack	spoke	enough	month
queen	stock	flour	Mrs.
raining	sure	forth	need
rank	Thursday	fresh	newspaper
riding	trade	gallon	office
self	twice	grew	pair
shut	welcome	happen	picture
simple	wrote	hurt	pillow
skate	77%	idea	proud
soap	brick	jar	provide
storm	brush	killed	rack
stranger	carry	met	rented
teeth	check	nose	rip
thankful	closed	painted	rolling
use	colt	pools	rubber
walked	damp	press	scout
wire	Dec.	pride	seem
78%	file	program	seventy
across	friend	prove	shortly
beat	garden	renting	smaller
belt	goose	sash	soft
burn	grain	selling	steel
called	himself	Sept.	stunt
cheer	labor	September	team
cloth	lace	steam	treat
club	leader	their	74%
coming	member	ticket	act
company	miss	tire	ans.
dozen	only	unable	anyway
fail	pencil	understanding	bottle
grandfather	posted	wedding	chance
hundred	printing	wise	chicken
largest	ready	wishes	cotton
lift	rug	woven	fact

farther  
field  
folder  
gladly  
guess  
heavy  
herself  
joke  
kisses  
leaves  
match  
mostly  
news  
November  
ocean  
oldest  
ordering  
phone  
post office  
quart  
rabbit  
reached  
rule  
shame  
sis  
sock  
somewhat  
tend  
those  
tile  
together  
trace  
track  
twelve  
uncle  
understand  
voter  
west  
witch

73%

almost  
anything  
awhile  
building  
coffee  
county  
dread  
dressed  
easy  
enter  
everything  
failed  
front  
fruit  
grown  
heap  
inclosed

inspect  
iron  
likewise  
payment  
peace  
pleased  
remain  
returned  
scrap  
seal  
spend  
study  
temple  
vote  
wanting  
whereby

72%

acting  
agent  
anywhere  
army  
classes  
cleaned  
content  
dare  
deliver  
drill  
fear  
getting  
gift  
gown  
improve  
indeed  
kindness  
maple  
o'clock  
odd  
planted  
postage  
protest  
providing  
pump  
roll  
seemed  
shed  
sore  
thread  
ton  
township  
turn  
wage

71%

answer  
ashamed  
bid  
branches  
build

bushel  
cast  
center  
discount  
during  
eighty  
elect  
fee  
feeling  
folk  
froze  
funny  
gain  
hate  
household  
lame  
latter  
least  
living  
loaded  
mailing  
moment  
moving  
ought  
packed  
partly  
pending  
prevent  
pull  
render  
return  
rough  
saving  
sickness  
slide  
stated  
tested  
thirty  
trusting  
visit  
wished

70%

anyhow  
bog  
booklet  
coast  
copy  
corner  
depending  
enclose  
filled  
flesh  
formed  
itself  
junk  
learn  
main

meeting  
named  
noise  
oblige  
plain  
raised  
ranch  
reason  
repair  
rushed  
talked  
trained  
won  
wrong  
Xmas

STEP 11—66%

69%

afraid  
among  
Ave.  
badly  
began  
brain  
candle  
cloudy  
court  
dated  
drilling  
family  
finish  
fourth  
French  
gee  
grind  
handling  
higher  
hoped  
kitchen  
leaf  
mistake  
nearer  
nicely  
nor  
orange  
past  
perfect  
range  
sale  
settle  
sewing  
snap  
strongly  
suit  
title  
withdrew



<b>writer</b>	<b>joined</b>	<b>65%</b>	<b>message</b>
<b>zone</b>	<b>lighting</b>	<b>absent</b>	<b>mountain</b>
<b>68%</b>	<b>locate</b>	<b>before</b>	<b>phoned</b>
<b>broad</b>	<b>lung</b>	<b>bugs</b>	<b>picnic</b>
<b>broken</b>	<b>meantime</b>	<b>builder</b>	<b>played</b>
<b>busy</b>	<b>mind</b>	<b>chairman</b>	<b>prize</b>
<b>cause</b>	<b>needle</b>	<b>cheap</b>	<b>raising</b>
<b>demand</b>	<b>nurse</b>	<b>coin</b>	<b>shipping</b>
<b>enjoyed</b>	<b>obliged</b>	<b>colored</b>	<b>shoulder</b>
<b>filling</b>	<b>payable</b>	<b>contain</b>	<b>shown</b>
<b>forward</b>	<b>plenty</b>	<b>delivered</b>	<b>strike</b>
<b>globe</b>	<b>pretty</b>	<b>devoted</b>	<b>treated</b>
<b>greater</b>	<b>slipper</b>	<b>dose</b>	<b>until</b>
<b>greeting</b>	<b>third</b>	<b>frame</b>	<b>valued</b>
<b>growing</b>	<b>through</b>	<b>fully</b>	<b>weekly</b>
<b>health</b>	<b>turkey</b>	<b>gland</b>	<b>writing</b>
<b>hers</b>	<b>value</b>	<b>grit</b>	<b>zero</b>
<b>kept</b>	<b>western</b>	<b>handled</b>	<b>63%</b>
<b>knew</b>	<b>wonderful</b>	<b>highest</b>	<b>auto</b>
<b>knowing</b>	<b>66%</b>	<b>hoping</b>	<b>await</b>
<b>known</b>	<b>afloat</b>	<b>hurry</b>	<b>checking</b>
<b>laugh</b>	<b>all right</b>	<b>inviting</b>	<b>delighted</b>
<b>letting</b>	<b>beaten</b>	<b>learning</b>	<b>edge</b>
<b>perhaps</b>	<b>chain</b>	<b>leaving</b>	<b>excuse</b>
<b>placing</b>	<b>chose</b>	<b>lowest</b>	<b>feeder</b>
<b>poorly</b>	<b>coy</b>	<b>ordered</b>	<b>figure</b>
<b>powder</b>	<b>dispose</b>	<b>painter</b>	<b>finest</b>
<b>raw</b>	<b>enjoy</b>	<b>parlor</b>	<b>fitting</b>
<b>respond</b>	<b>fancy</b>	<b>present</b>	<b>handsome</b>
<b>Saturday</b>	<b>favor</b>	<b>produce</b>	<b>hare</b>
<b>says</b>	<b>fifteen</b>	<b>retail</b>	<b>helped</b>
<b>since</b>	<b>frankly</b>	<b>serve</b>	<b>ivory</b>
<b>stating</b>	<b>gas</b>	<b>share</b>	<b>mister</b>
<b>strongest</b>	<b>history</b>	<b>single</b>	<b>monthly</b>
<b>waist</b>	<b>joyful</b>	<b>sooner</b>	<b>opened</b>
<b>women</b>	<b>lie</b>	<b>square</b>	<b>pearl</b>
<b>worm</b>	<b>liked</b>	<b>taught</b>	<b>penny</b>
<b>67%</b>	<b>lucky</b>	<b>tax</b>	<b>reaches</b>
<b>already</b>	<b>membership</b>	<b>training</b>	<b>regard</b>
<b>August</b>	<b>nerve</b>	<b>understood</b>	<b>sitting</b>
<b>beef</b>	<b>opening</b>	<b>weary</b>	<b>steady</b>
<b>bottom</b>	<b>owned</b>	<b>64%</b>	<b>waiting</b>
<b>changed</b>	<b>packing</b>	<b>breakfast</b>	<b>youth</b>
<b>changing</b>	<b>power</b>	<b>chapter</b>	
<b>cottage</b>	<b>provided</b>	<b>closing</b>	<b>STEP 12—58%</b>
<b>dealing</b>	<b>remind</b>	<b>earning</b>	<b>62%</b>
<b>dice</b>	<b>spread</b>	<b>extent</b>	<b>birth</b>
<b>expert</b>	<b>stair</b>	<b>extra</b>	<b>breaking</b>
<b>express</b>	<b>that's</b>	<b>fix</b>	<b>chill</b>
<b>few</b>	<b>throw</b>	<b>freeze</b>	<b>chum</b>
<b>haven't</b>	<b>vacation</b>	<b>frozen</b>	<b>contract</b>
<b>helpful</b>	<b>voice</b>	<b>hotel</b>	<b>cooler</b>
<b>hereafter</b>	<b>waited</b>	<b>inclosing</b>	<b>cough</b>
<b>housekeeping</b>	<b>you'll</b>	<b>inform</b>	<b>cousin</b>
<b>including</b>		<b>informed</b>	<b>Dr.</b>
<b>invite</b>		<b>join</b>	<b>enclosed</b>
		<b>lamb</b>	

explain  
fifth  
fitted  
forwarding  
greatest  
hardware  
hercin  
knot  
level  
manage  
painting  
quickly  
reaching  
refuse  
rod  
score  
station  
stuff  
thereof  
to-morrow  
wait  
workmanship

61%

blessed  
charming  
cheerful  
clearly  
dairy  
dirty  
disposed  
duty  
extend  
friendly  
insist  
located  
loud  
lower  
piano  
reply  
sheet  
showed  
stamped  
subject  
though  
Tues.  
visited  
worse

60%

adjust  
advise  
awaiting  
Bro.  
built  
checked  
color  
comply  
direct

ease  
improved  
intended  
invoice  
listen  
lonesome  
loss  
mamma  
mass  
measure  
middle  
nature  
offering  
owe  
rapid  
recovered  
repeat  
retain  
scare  
setting  
settlement  
sew  
skating  
tread  
tried

59%

anybody  
appear  
capital  
caught  
covered  
crowd  
daughter  
exchange  
fixed  
following  
force  
forwarded  
headquarter  
hence  
limb  
loving  
manner  
namely  
pattern  
pavement  
per cent  
performed  
placed  
proven  
quit  
quite  
record  
request  
requesting  
respect  
woman

58%

address  
agreed  
base  
carried  
caused  
coasting  
collar  
comfort  
cure  
damage  
delightful  
detail  
fever  
fourteen  
guide  
habit  
illness  
I've  
ladies  
language  
linen  
lovely  
narrow  
needing  
nineteen  
obtain  
organ  
season  
suffering  
Thanksgiving  
throat  
united  
voting

57%

answering  
beet  
beyond  
bridge  
crazy  
crew  
deeply  
delayed  
eager  
eighteen  
eleventh  
finished  
further  
homestead  
honest  
husband  
latest  
lose  
married  
misses  
needed  
prevented

profit  
public  
shock  
surprised  
taxes  
turned  
waste  
watching

56%

actor  
although  
baking  
boiler  
buying  
cheaper  
confined  
contained  
daily  
dancing  
dealer  
feel  
figured  
foolish  
furnish  
German  
happened  
I'd  
improving  
instead  
movement  
package  
quarter  
refund  
regarding  
reported  
saddle  
sign  
slept  
tired  
useful  
Wednesday  
whom

55%

amounting  
answered  
backed  
boarding  
buggy  
bulk  
charged  
choose  
crippled  
debate  
decline  
discovered  
enjoying  
expained

fairly  
gotten  
grip  
industry  
isn't  
lecture  
neglect  
nevertheless  
notice  
plainly  
pleasure  
production  
properly  
regret  
require  
suitable  
surface  
worst

## STEP 13—50%

54%

aid  
aim  
barrel  
begun  
correct  
directed  
except  
flavor  
friendship  
gaining  
gravy  
include  
intention  
loan  
obtained  
owing  
permit  
raise  
second  
seller  
spare  
tight  
watched  
winner  
yourselves

53%

adopted  
bigger  
bowl  
buyer  
continue  
creep  
cutting  
desire

dodge  
fund  
future  
germ  
holiday  
insert  
ninth  
presented  
primary  
proof  
ribbon  
scale  
struck  
supply  
suppose  
wearing  
wouldn't  
yoke

52%

abstract  
advance  
ample  
chief  
debating  
else  
entering  
fuel  
furnishing  
headache  
hello  
item  
likely  
machine  
maybe  
model  
oversight  
passed  
perfectly  
postal  
requested  
secure  
seldom  
stayed  
studies  
submit  
therefore  
treatment  
trouble  
unpaid

51%

action  
attend  
balance  
beauty  
coach  
daddy

enrolled  
excited  
film  
fullest  
graze  
investment  
length  
maintain  
outlined  
Prof.  
property  
rainy  
remained  
remembering  
renewed  
server  
weigh  
worry  
written

50%

awful  
careful  
clerk  
closely  
conduct  
entertaining  
entry  
factory  
February  
loyal  
minute  
northern  
noticed  
pupil  
rapidly  
served  
sleet  
standard  
statement  
truly  
using  
wondering

49%

advice  
alley  
ankle  
biggest  
burden  
butcher  
captain  
consist  
containing  
delivery  
election  
example  
expressed

forenoon  
garage  
gentleman  
greatly  
lbs.  
loose  
notion  
potatoes  
promised  
queer  
quoted  
shopping  
silence  
sorrow  
surprise  
throughout  
trial  
upper  
valley

48%

adjustment  
animal  
avenue  
aware  
break  
calm  
central  
concluded  
degree  
deportment  
dreadful  
either  
fern  
filing  
gasoline  
hereby  
judge  
lately  
niece  
parcel  
prospect  
putting  
recently  
recess  
recite  
returning  
settled  
skirt  
smooth  
splendid  
stories  
taste  
topic  
traveling  
visiting

47%

addition  
admit  
aren't  
cabinet  
cherries  
due  
fare  
lodge  
patent  
pleasant  
quiet  
strict  
touch  
toward  
uniform  
whether

46%

account  
acted  
active  
addresses  
attending  
bass  
bluff  
booster  
button  
climate  
clothe  
credit  
enclosing  
entered  
entertainment  
forty  
hasn't  
honor  
increasing  
mention  
pertaining  
progress  
promotion  
refused  
regulation  
relationship  
rye  
satisfied  
service  
several  
sire  
student  
studying  
text  
tickled  
towel  
weighed  
we'll

we've  
whose  
worried  
worthy

STEP 14—42%

45%

against  
artist  
companion  
considering  
couple  
exciting  
fault  
figuring  
lining  
prompt  
question  
studied  
weight

44%

automobile  
booth  
carefully  
carrying  
conversation  
destroyed  
final  
growth  
handkerchief  
honestly  
human  
independent  
modern  
neighborhood  
prepaid  
problem  
replying  
required  
ruin  
serving  
shipper  
soldier  
union

43%

advertised  
arrive  
average  
control  
debt  
depot  
decision  
earnest  
effort  
entirely

ere  
explaining  
forced  
furnace  
instant  
jobber  
jury  
mentioned  
normal  
pardon  
parent  
popular  
rendered  
reputation  
term  
utmost

42%

allow  
circus  
complete  
convention  
duties  
English  
expected  
fashion  
gentlemen  
grocery  
included  
information  
laid  
location  
recent  
shipped  
slightly  
sweater  
view  
violin

41%

addressed  
apply  
blooming  
condition  
contemplated  
dependent  
different  
drama  
dwelling  
elected  
entertain  
extended  
famous  
favorable  
ideal  
important  
interested  
liquid

losing  
manufacture  
minister  
missed  
object  
parties  
piece  
preparing  
publisher  
reduced  
refreshment  
relation  
represent  
result  
rifle  
scarce  
situation  
worrying

40%

agreeable  
barley  
blackberries  
catalogue  
creamery  
desired  
desiring  
expired  
gained  
healthy  
hospital  
inquire  
local  
offered  
pastor  
preacher  
prepare  
promptly  
realize  
reduce  
remember  
running  
struggle  
vary

39%

arrange  
believe  
candidate  
carrier  
comfortable  
common  
complaint  
constant  
director  
factor  
failure  
female

group  
haste  
installed  
ironing  
machinery  
manager  
operated  
product  
promise  
protected  
remit  
reserve  
success  
supplied  
you'd

38%

advanced  
alfalfa  
bargain  
billed  
cement  
cigar  
confident  
convince  
curtain  
describe  
didn't  
employed  
firm  
forgotten  
limit  
lovingly  
manual  
method  
really  
resulting  
simply  
slippery

STEP 15—34%

37%

ache  
acre  
argument  
attention  
choice  
current  
cute  
decide  
deserve  
discontinued  
doesn't  
domestic  
exact  
exactly  
feature

hurried  
inclined  
interest  
priced  
produced  
quote  
register  
republican  
talent  
telephone  
tract  
transit

36%

advantage  
adventure  
advising  
avoid  
calves  
cellar  
considered  
couldn't  
courage  
data  
easily  
entitle  
formerly  
furnished  
increased  
international  
Latin  
limited  
management  
owner  
prepared  
receive  
select  
supposed  
transfer  
treasurer

35%

attach  
attached  
crowded  
decided  
doubt  
expecting  
factories  
fierce  
guest  
hadn't  
madam  
position  
prayer  
private  
represented  
resident

respectfully  
strawberries

34%

appeal  
awfully  
capable  
certain  
cities  
college  
consider  
continued  
convinced  
deserved  
foundation  
instruct  
instructed  
mere  
moral  
neglected  
neighbor  
prevail  
procured  
reduction  
reliable  
section  
separate  
source

33%

bracelet  
channel  
composition  
congratulate  
customer  
democrat  
education  
enroll  
entire  
favored  
happiness  
importance  
improvement  
library  
period  
realizing  
search  
secured  
securing  
slight  
tatting  
total  
vision

32%

adjusted  
advertise  
applied  
arranged

arrived  
braid  
district  
exam.  
general  
geography  
increase  
largely  
opera  
opinion  
positive  
published  
satisfactory  
signed  
style  
succeeded  
themselves  
valuable

31%

accomplish  
advertising  
attain  
believing  
calendar  
combination  
constantly  
corrected  
dangerous  
disgusted  
followed  
graduation  
hailed  
heir  
liberal  
million  
misunderstanding  
neither  
ninety  
operation  
organized  
ourselves  
personal  
raiser  
regardless  
regular  
remedy  
selected  
stomach  
straight  
vacant

STEP 16—27%

30%

according  
advancement  
advised

appointed  
appointment  
attended  
automatic  
banquet  
cartoon  
connected  
connecting  
copies  
corporation  
credited  
directly  
excess  
exercise  
favorite  
federal  
funeral  
inspector  
inst.  
moderate  
nickel  
particular  
patron  
proceed  
publication  
reference  
reservation  
route  
suggested  
theater  
wasn't

29%

accordingly  
affair  
altogether  
ambition  
amendment  
benefit  
cashier  
collect  
concern  
connect  
course  
etc.  
examined  
expression  
ghost  
humor  
instance  
internal  
justified  
literary  
medicine  
planning  
refer  
system  
wholesale

28%

appeared  
approved  
beginning  
Christian  
commence  
correction  
correctly  
direction  
earliest  
exception  
hesitate  
interesting  
nervous  
prior  
purpose  
representation  
requirement  
safety  
strength  
submitted  
transportation

27%

auntie  
based  
companies  
conference  
contrary  
democratic  
develop  
difference  
extensive  
fortune  
gratitude  
issue  
legal  
manufacturing  
nephew  
president  
presume  
registration  
resource  
Sabbath  
satisfy  
spirit  
superintendent  
support  
telegram

26%

attraction  
barely  
cedar  
coarse  
concerning  
concert  
confirming

deposit  
engineering  
freight  
good-bye  
graduating  
issued  
notify  
obligation  
personality  
prefer  
quality  
reasonable  
relative  
remembered  
rural  
sense  
stationary  
stopped  
supplies

25%

advertisement  
author  
canned  
confer  
disposal  
doubtless  
effect  
evidently  
influence  
inquiry  
junior  
liable  
meant  
musical  
organize  
permanent  
purchase  
reception  
selection  
semester  
serious  
society  
strictly  
volume

24%

assist  
ballot  
employer  
examine  
existing  
generous  
heretofore  
imagine  
impossible  
justify  
national  
process

resigned  
salesman  
secretary  
series  
suggest  
tanning  
X-ray

STEP 17—21%

23%

absence  
absolute  
arriving  
article  
client  
collecting  
connection  
deliveries  
difficulty  
engineer  
enrollment  
experience  
frequently  
furniture  
graduate  
grateful  
label  
occupied  
possible  
possibly  
practicing  
purchased  
quotation  
receiving  
registered  
salary  
subscription  
succeed

22%

accent  
athletics  
business  
choir  
collection  
compelled  
consequently  
consideration  
co-operating  
coupon  
demonstrated  
design  
durable  
envelope  
equipment  
explanation  
fabric

genuine  
hustling  
inquires  
installment  
insurance  
investigate  
involved  
satisfaction  
timothy

21%

actual  
admission  
assured  
celebrate  
construction  
decrease  
discourage  
establish  
established  
hastily  
investigation  
mental  
merchandise  
patient  
policy  
practice  
qualities  
reliability  
renewal  
sanitary  
signature  
variety

20%

allowed  
assistant  
basis  
brief  
carnival  
commerce  
confidence  
cushion  
destination  
elsewhere  
examiner  
identify  
instruction  
introduction  
judgment  
legislation  
magazine  
natural  
politics  
preparation  
receipt  
regularly  
superior

supervision  
surplus  
type  
appearance  
application  
arrangement  
attempt  
choosing  
circulation  
citizen  
considerably  
correspond  
crochet  
difficult  
distribution  
equally  
excitement  
expensive  
federation  
numerous  
preliminary  
quantity  
relieved  
straightened  
subscriber  
sympathy  
urge

STEP 18—16%

18%

ability  
accident  
agriculture  
algebra  
announce  
assembly  
assessment  
attendance  
authorized  
certainly  
consequence  
conservatory  
considerable  
convenient  
council  
decision  
development  
examination  
girlie  
inferior  
institution  
introduced  
knowledge  
meter

planned  
probably  
relieve  
representative  
responsible  
universal

17%

administrator  
conclusion  
congratulation  
description  
disappoint  
estimated  
excellent  
government  
inconvenience  
indicate  
inducement  
librarian  
notified  
operating  
presence  
proposition  
prosperous  
readily  
received  
regretting  
terrible  
weren't

16%

alumni  
arrival  
assortment  
assure  
attractive  
available  
capacity  
circular  
crocheting  
electrical  
entitled  
epidemic  
evidence  
exclusively  
fashionable  
grammar  
individual  
invitation  
merely  
rec'd  
remembrance  
remittance  
successful  
supervisor  
territory  
welfare

15%

agency  
allotment  
announcement  
assignment  
assistance  
assuring  
attorney  
electricity  
encourage  
exceptional  
extreme  
familiar  
generally  
geometry  
grippe  
instructor  
instrument  
literature  
notary  
ordinary  
possess  
practical  
previous  
profitable  
referring  
special  
surgery  
usual

14%

absolutely  
additional  
auditor  
blizzard  
completely  
consultation  
expense  
foreign  
fundamental  
gradually  
honorable  
mortgage  
occasion  
quantities  
thesis  
sincere

STEP 19—12%

13%

applicant  
association  
assume  
canvass  
communication  
constitution  
co-operative

cordial  
demonstration  
disagreeable  
duplicate  
employee  
finally  
illustrated  
impression  
necessity  
organization  
premium  
profession  
senior  
social

12%

acquainted  
agricultural  
anxious  
bulletin  
compliment  
co-operation  
disease  
error  
executed  
exhibit  
glorious  
majority  
merit  
naturally  
orchestra  
similar  
university  
unusually

11%

acquire  
administration  
anniversary  
confirm  
contemplating  
correspondent  
customary  
disappointed  
disappointment  
enormous  
exhausted  
favorably  
illustrating  
immense  
material  
opportunity  
particularly

physical  
privilege  
recommend  
specification  
thorough  
usually

10%

assurance  
bonus  
circumstances  
commercial  
enthusiastic  
executive  
fraternally  
guaranteed  
journal  
possession  
practically  
recommendation  
response  
satisfactorily

STEP 20—8%

9%

accompanying  
accomplished  
activity  
advisable  
affectionately  
annual  
approval  
assigned  
associated  
certificate  
circuit  
equipped  
extension  
illustration  
immediate  
leisure  
mechanical  
principle  
substitute

8%

acceptance  
accordance  
annually  
authority  
campaign  
character  
civics

committee  
continuous  
definite  
definitely  
fortunate  
Hallowe'en  
immediately  
interfere  
occasionally  
original  
principal  
prosperity  
tuberculosis  
unusual

7%

actually  
affidavit  
analysis  
appreciated  
appreciation  
commissioner  
conveniently  
cordially  
exhibition  
extremely  
institute  
materially  
necessary  
official  
originally  
personally  
phosphorus  
pneumonia  
possibility  
referred  
soliciting  
unnecessary  
vicinity  
zephyr

STEP 21—6%

6%

accommodate  
acknowledge  
ambitious  
appreciate  
candidacy  
confirmation  
correspondence  
enthusiasm  
especially

guarantee  
maturity  
responsibility

5%

accredited  
attitude  
convenience  
courteous  
efficient  
essential  
exceptionally  
physician  
professional  
science  
specially  
sufficient  
various

STEP 22—4%

4%

acquaintance  
appreciating  
associate  
chautauqua  
commission  
community  
financial  
ingredients  
license  
rheumatism  
solicit  
thoroughly

3%

anticipating  
bureau  
efficiency  
lieutenant  
politician  
schedule  
sincerely

STEP 23—2%

appendicitis

STEP 24—1%

anticipate  
apparatus  
peculiarities  
scientific

STEP 25—0%

characteristic





**SECTION XII**

**THE IOWA SPELLING SCALE**

**GRADE V**

## GRADE V

### STEP 1—100%

all  
and  
at  
baby  
book  
but  
come  
day  
good  
got  
hand  
have  
he  
her  
his  
how  
is  
it  
let  
lot  
may  
old  
read  
run  
say  
see  
this  
three  
up  
we  
what  
will  
wish  
with  
wood  
year  
your

### STEP 2—99%

age  
are  
ball  
barn  
be  
big  
boy  
by  
call  
came  
can  
card

corn  
could  
dear  
did  
dinner  
door  
dress  
each  
every  
fast  
fish  
five  
game  
go  
going  
happy  
hard  
home  
hunt  
in  
July  
kind  
lake  
land  
last  
letter  
like  
little  
long  
look  
love  
make  
man  
May  
Monday  
mother  
must  
my  
not  
Nov.  
on  
out  
over  
place  
play  
rich  
said  
seven  
she  
ship  
snow  
state  
tell

thank  
that  
thing  
think  
top  
under  
was  
way  
winter  
work

### STEP 3—98%

add  
am  
away  
bank  
bell  
bill  
box  
bring  
cake  
calling  
car  
care  
cash  
clear  
dark  
do  
dog  
east  
feet  
food  
foot  
from  
gate  
gold  
had  
hay  
head  
help  
however  
ice  
if  
inside  
into  
just  
day  
men  
much  
nine  
oil  
one

park  
saw  
saying  
school  
show  
silk  
so  
south  
spend  
spring  
store  
taken  
ten  
the  
them  
then  
train  
walking  
wall  
why  
would  
yet  
yourself

### STEP 4—96%

97%

about  
after  
ago  
along  
apple  
asking  
back  
bed  
bee  
blow  
brother  
butter  
city  
class  
clean  
count  
cow  
cut  
dance  
date  
down  
earth  
end  
fall  
farm  
fat

fell  
fire  
free  
gave  
get  
give  
grade  
has  
hat  
hot  
ill  
ink  
June  
kindly  
left  
light  
live  
longer  
looking  
made  
milk  
more  
most  
Mr.  
night  
north  
nut  
off  
once  
outside  
page  
papa  
pay  
pig  
put  
red  
rent  
river  
rush  
sand  
seen  
send  
sheep  
should  
sick  
six  
some  
stand  
stay  
such  
sun  
sweet  
take  
tent  
they  
thinking

time  
to-day  
to-night  
two  
us  
very  
walk  
wash  
well  
whatever  
where  
white  
who  
within  
world  
you  
adding  
an  
as  
bad  
became  
best  
better  
bird  
block  
blue  
bright  
cap  
case  
cat  
cent  
chair  
children  
coat  
cold  
cook  
cover  
covering  
dad  
delay  
doing  
dust  
early  
ever  
face  
farming  
faster  
fellow  
fill  
for  
found  
fun  
glad  
goldfish  
grand  
green

half  
hall  
heat  
hen  
hill  
hold  
inch  
joy  
king  
large  
late  
lost  
mail  
market  
mean  
mill  
move  
note  
number  
our  
pine  
point  
poor  
print  
rain  
reader  
reading  
real  
road  
same  
sell  
short  
side  
sister  
spell  
spelling  
standing  
stone  
summer  
Sunday  
table  
thanking  
there  
till  
toy  
tree  
used  
want  
war  
washing  
water  
went  
west  
wheat  
when  
wide  
window

working  
yard

STEP 5—94%

95%

added  
afternoon  
art  
asked  
backing  
banking  
bay  
bean  
below  
beside  
black  
blank  
boat  
brick  
cannot  
change  
coal  
cream  
cup  
dead  
Dec.  
eat  
Feb.  
felt  
filling  
finding  
Friday  
frost  
girl  
glass  
grass  
ground  
grove  
handy  
him  
hog  
hour  
house  
hunting  
Jan.  
kid  
landing  
law  
lived  
low  
mad  
March  
meat  
morning  
mud  
myself

name  
near  
net  
never  
nice  
of  
oldest  
paper  
part  
pen  
picture  
playing  
price  
ready  
rest  
rice  
ride  
rock  
Sat.  
sent  
shoe  
singing  
sink  
sleep  
sound  
start  
storm  
stove  
teacher  
telling  
thin  
took  
unable  
were  
wind  
wise  
without  
worker

94%

able  
above  
ahead  
air  
also  
arm  
around  
ask  
banker  
bat  
bear  
because  
behind  
belong  
contest  
cost  
country

cross  
darling  
deep  
died  
don't  
drive  
even  
eye  
far  
fight  
first  
fishing  
fit  
forget  
glove  
gone  
great  
keep  
kiss  
lady  
larger  
leader  
leave  
leg  
life  
longest  
looked  
ma  
meal  
mine  
no  
now  
Oct.  
older  
open  
or  
overcoat  
party  
pick  
pie  
pin  
proper  
rail  
reach  
remove  
report  
room  
rose  
round  
rust  
sad  
safe  
sat  
shall  
sin  
slip

slow  
son  
song  
soon  
sport  
stamp  
stated  
stick  
stop  
swell  
teaching  
teeth  
ticket  
trip  
upon  
wake  
warm  
wife  
willing  
worked  
yellow  
yes

STEP 6—92%

93%

act  
alone  
any  
anyone  
aside  
bake  
become  
belt  
board  
body  
boxes  
camp  
can't  
child  
colder  
cool  
crop  
done  
eight  
father  
flat  
fort  
four  
goat  
hair  
handed  
handle  
hear  
himself  
inches  
lesson

list  
liver  
lives  
load  
loved  
luck  
mark  
master  
mate  
money  
mouth  
new  
noon  
nothing  
oats  
oh  
painted  
pass  
post  
postage  
press  
quick  
rule  
sack  
saved  
seed  
seeing  
sending  
set  
seventy  
silver  
sir  
sit  
small  
soft  
soil  
spending  
spent  
stage  
started  
staying  
still  
stood  
sugar  
supper  
teach  
test  
town  
walked  
week  
whenever  
while  
yearly  
zone

92%

another  
April

army	sold	paint	flower
ate	spot	pump	garden
basket	talking	queen	gift
birthday	these	rubber	glasses
cattle	told	snowed	growing
check	trust	soap	hang
cleaning	twenty	something	harder
clock	western	sorry	harvest
close		speak	here
December	91%	sum	hit
die	alive	sunshine	holding
drop	aunt	taking	income
easily	band	talk	itself
egg	beat	tenth	kindness
fence	been	than	kitten
fine	being	tip	know
forgot	branch	tire	lace
form	bringing	ton	listed
fur	buy	true	lump
grant	cane	trunk	marking
heating	charge	try	nation
helping	chart	Tuesday	nearly
job	church	unless	neck
jump	clay	wanted	none
kill	coffee	wanting	noted
kinder	danger	washed	November
lumber	deal	welcome	office
next	deed	wheel	ours
only	depend	win	outfit
other	dream	wire	person
pack	enough	wishing	pure
packing	feed	wonder	range
paying	fifty	write	rank
people	friend		rate
picking	given		recover
pillow	ha	STEP 7—88%	remain
pink	hardly	90%	remark
planted	heavy		rented
plate	high	Aug.	retain
please	hole	blood	return
plow	homesick	both	shame
pocket	horse	brought	shape
pound	January	brush	sort
pride	keeping	bunch	space
printed	lame	burn	station
railroad	largest	called	steam
recall	lunch	catch	study
renter	mailed	chum	tank
seat	matter	classes	thereafter
self	meet	club	those
September	mostly	content	thus
shipment	moved	county	trained
shop	music	dearest	use
sickness	nobody	dresser	wagon
smart	order	farmer	wet
snowing	oven	fear	wild
	own	file	

wool  
word  
worth  
yesterday

89%

acting  
booklet  
born  
bottle  
bought  
brain  
brand  
cared  
carry  
center  
chop  
closed  
coast  
cooking  
dated  
discount  
display  
dollar  
dozen  
drug  
drum  
duty  
everything  
express  
fact  
fail  
few  
filled  
gather  
getting  
happen  
hate  
hurry  
invite  
leaves  
less  
maid  
mailing  
maker  
many  
might  
news  
painter  
partly  
patch  
peach  
phone  
plenty  
pole  
post card  
printing

protest  
pull  
race  
rained  
render  
roof  
row  
settle  
shortly  
shut  
sixty  
size  
speaker  
stranger  
street  
strongest  
suit  
sure  
temple  
thick  
travel  
trying  
understand  
watch  
weak  
woven  
young

88%

agree  
bet  
blame  
cheer  
Christmas  
closer  
cord  
counting  
enter  
evening  
everyone  
fair  
finish  
follow  
football  
force  
forest  
former  
front  
funny  
garment  
grain  
gray  
grown  
holder  
hoped  
I'm  
indeed

lift  
lovely  
membership  
met  
newspaper  
nose  
October  
passing  
per  
plan  
raw  
right  
ring  
sale  
saving  
selling  
Sept.  
skate  
snap  
spoke  
starting  
step  
stunt  
team  
thankful  
thought  
tie  
township  
track  
turkey  
uncle  
understanding  
united  
vote  
wrote

87%

across  
again  
agent  
always  
apart  
asleep  
awhile  
Bible  
boss  
bother  
build  
calf  
charming  
chicken  
cloth  
coin  
crib  
dandy  
family  
feeling

finger  
ford  
forgive  
frame  
goose  
grandma  
grew  
hearing  
herself  
inasmuch  
learned  
learning  
leaving  
Miss  
miss  
month  
noise  
orange  
otherwise  
pleased  
posted  
prevent  
printer  
quart  
raised  
removed  
respect  
roll  
seventh  
share  
shot  
sight  
someone  
somewhere  
stock  
tend  
tile  
title  
trace  
treat  
trusting

STEP 8—84%

86%

almost  
amount  
answer  
anything  
begin  
behalf  
bid  
bite  
cleaner  
coasting  
cotton  
death

deliver  
demand  
doctor  
draft  
eve  
exchange  
failed  
figure  
finished  
gown  
grandfather  
hardware  
held  
history  
improve  
knew  
learn  
making  
match  
moving  
named  
need  
pain  
peace  
pending  
poorly  
power  
rack  
raining  
reaching  
renew  
renting  
rug  
sample  
scout  
sock  
tested  
thereof  
thread  
too  
twice  
value  
velvet  
wear  
won

85%

absent  
anywhere  
belonging  
building  
carpet  
cast  
cause  
caused  
chance  
contain  
cottage

court  
damp  
dare  
dearly  
depending  
dressed  
drew  
drill  
edge  
greatest  
grind  
heap  
honest  
household  
inform  
invited  
island  
killed  
kisses  
labor  
leather  
locate  
lower  
nature  
overlooked  
pa  
painting  
pair  
plum  
porch  
present  
reported  
riding  
rolling  
Saturday  
seem  
sometime  
third  
thousand  
Thursday  
treated  
turn  
waited  
whole  
wishes  
withdraw

84%

afraid  
August  
auto  
battle  
bench  
between  
branches  
brown  
bushel  
chill

clothing  
cloudy  
company  
dispose  
does  
enjoy  
fancy  
feeding  
folder  
forth  
frankly  
fresh  
glee  
having  
heard  
higher  
hundred  
I'll  
improved  
inclosed  
iron  
joke  
least  
loaded  
lone  
lonesome  
loud  
lung  
meantime  
member  
merry  
mighty  
monthly  
nap  
nicely  
produce  
proud  
provide  
raise  
record  
repair  
request  
rod  
shade  
sheet  
showed  
simple  
since  
smaller  
somewhat  
stair  
strongly  
taxes  
their  
tried  
weather  
wished

83%

active  
address  
ans.  
badly  
beet  
beg  
bit  
broken  
bugs  
builder  
candle  
changed  
clever  
colt  
conduct  
copy  
drilling  
eighteen  
excuse  
extent  
field  
formed  
gladly  
hereafter  
hotel  
inclose  
lighting  
located  
lucky  
maple  
meeting  
middle  
northern  
offering  
packed  
payment  
pearl  
plain  
prize  
ranch  
respond  
returned  
rough  
scale  
second  
single  
sixth  
slipper  
sooner  
thirty  
to  
treatment  
vacation  
visit  
witch  
won't



writing  
youth  
zero

82%

action  
afterward  
already  
among  
boiler  
broad  
broke  
cleaned  
cure  
decline  
delighted  
eighty  
elect  
everybody  
flesh  
floor  
froze  
fruit  
gaining  
globe  
granted  
herewith  
instead  
joyful  
kindest  
lamb  
leaf  
liberty  
lie  
living  
mountain  
Mrs.  
neat  
obtain  
ocean  
officer  
pencil  
pretty  
program  
prove  
proved  
provided  
question  
requested  
rip  
rushed  
scare  
several  
stuff  
throat  
through  
tiny

twelve  
understood  
voter  
waiting  
weary  
wedding  
whereby  
women  
wonderful  
yoke

STEP 9—79%

81%

advance  
anyhow  
blew  
button  
buyer  
caught  
central  
chain  
clearly  
damage  
daughter  
degree  
enclosed  
find  
finest  
flour  
folk  
fuel  
gallon  
greeting  
haven't  
helped  
hence  
later  
laugh  
mind  
mister  
nearer  
nor  
opening  
outlined  
payable  
phoned  
played  
prevented  
production  
quickly  
reduce  
refuse  
retail  
seal  
seemed

setting  
spread  
square  
steel  
subject  
talked  
tread  
valley  
voice  
waist  
which  
worm

80%

afloat  
anyway  
artist  
breakfast  
bridge  
cheap  
corner  
cutting  
delivered  
directed  
English  
fixed  
greater  
greatly  
health  
hers  
hurt  
junk  
likewise  
mass  
mend  
needed  
needle  
nevertheless  
notice  
o'clock  
ordering  
pools  
post office  
potatoes  
raising  
repeat  
sew  
shed  
strike  
studies  
though  
trade

79%

amounting  
before  
bottom  
carried

charged  
climate  
comfort  
comply  
cousin  
dealer  
dealing  
deeply  
deserve  
dose  
expert  
extend  
feeder  
fifth  
foolish  
frozen  
germ  
guess  
homestead  
informed  
judge  
listen  
main  
moment  
obtained  
penny  
postal  
power  
product  
public  
reached  
reason  
recovered  
remind  
season  
serve  
speed  
stamped  
student  
suitable  
throw  
trouble  
turned  
union  
upper  
valued  
visited  
wait  
whom  
wrong

78%

answering  
beef  
chapter  
crazy  
daily

dancing	herein	movement	74%
dread	insist	perfect	acre
election	intend	permit	actor
factory	joined	plainly	anybody
farther	lbs.	primary	attend
fix	now	reaches	backed
fourth	nerve	scrap	barrel
fully	nurse	sis	beauty
gas	odd	training	beyond
German	opened	truly	buying
grit	ought	until	captain
handling	past	watching	color
idea	placed		coy
inspect	pleasure	75%	enclosing
isn't	proven	although	except
jar	rabbit	animal	explained
kitchen	require	appear	further
knowing	tax	ashamed	gee
language	weekly	Ave.	handled
latest	weigh	beaten	highest
latter	weight	begun	improving
liked	woman	birth	inviting
message	Xmas.	changing	ivory
package		checking	known
perhaps	STEP 10—73%	coach	length
reply	76%	creep	local
returning	abstract	ease	measure
sash	answered	factor	million
score	bigger	forty	misses
skating	built	fourteen	needing
slide	bulk	friendly	owner
steady	capital	gained	picnic
that's	cheaper	gland	profit
tired	checked	helpful	rapid
visiting	clerk	its	recite
we'll	cough	level	relation
worse	dairy	linen	relationship
77%	detail	manage	section
acted	dodge	notion	secure
blessed	eager	object	silence
busy	else	ordered	skirt
cheerful	figured	organ	soldier
coming	freeze	owing	sore
contract	furnish	parlor	statement
couple	grip	providing	taught
direct	headache	ribbon	throughout
eleventh	housekeeping	slept	to-morrow
enclose	intended	sorrow	towel
excited	join	stating	unpaid
explain	kept	term	78%
extra	lecture	together	agreed
fashion	loving	touch	await
favor	machine	useful	chairman
gain	married	view	closing
habit	mistake	worst	collar
handsome		writer	cooler

covered  
deportment  
disposed  
dreadful  
during  
enjoyed  
expected  
famous  
French  
furnished  
gasoline  
hare  
healthy  
including  
investment  
letting  
lodge  
lonely  
oblige  
perfectly  
piano  
property  
prospect  
quarter  
regulation  
saddle  
saver  
settlement  
shock  
submit  
Thanksgiving  
traveling  
voting

72%

apply  
baking  
hase  
bog  
careful  
cigar  
correct  
crowd  
curtain  
devoted  
discovered  
dwelling  
earning  
elected  
enjoying  
entering  
feel  
fever  
fifteen  
film  
flavor  
forward

holiday  
hospital  
inclosing  
include  
intention  
invoice  
ladies  
namely  
owe  
parties  
per cent  
promised  
putting  
quit  
recess  
reduction  
regard  
reserve  
sewing  
shipping  
shoulder  
stayed  
supply  
uniform  
wage

71%

addresses  
advise  
alley  
barley  
began  
break  
carrier  
cities  
containing  
continue  
delayed  
desired  
dice  
dirty  
fitting  
foundation  
furnishing  
gentleman  
handkerchief  
hoping  
human  
husband  
illness  
increasing  
knot  
likely  
limb  
loyal  
owned  
pavement  
pupil

rainy  
remember  
says  
serving  
sleet  
suffering  
Tues.  
winner  
workmanship

70%

admit  
advice  
awaiting  
blooming  
bluff  
booth  
buggy  
butcher  
delightful  
desire  
earnest  
explaining  
fullest  
furnace  
graze  
happened  
loss  
model  
neglect  
nineteen  
parent  
placing  
presented  
problem  
progress  
quoted  
reduced  
rye  
scarce  
seller  
served  
server  
spare  
sweater  
Wednesday  
we've  
wouldn't  
you'll

STEP 11—66%

69%

according  
aid  
balance  
calm  
cement

couldn't  
delivery  
director  
district  
doubt  
Dr.  
example  
expressed  
fitted  
fortune  
forwarding  
geography  
grocery  
headquarter  
important  
improvement  
insert  
I've  
lowest  
manner  
minute  
normal  
obliged  
quite  
recently  
refreshment  
refused  
sign  
sitting  
surface  
topic  
waste  
watched  
worry  
yourselves

68%

adjust  
advising  
ample  
aware  
believe  
chose  
common  
condition  
consist  
contained  
credit  
employed  
fairly  
forenoon  
forgotten  
friendship  
fund  
hurried  
I'd  
inquire

jury  
location  
performed  
prepaid  
properly  
requesting  
result  
settled  
shown  
stories  
struck  
success  
wasn't

67%

adjustment  
boarding  
circus  
companion  
dangerous  
fault  
fern  
figuring  
forwarded  
included  
information  
ironing  
method  
promise  
recent  
regret  
remained  
simply  
standard  
wondering

66%

account  
addressed  
attending  
breaking  
burden  
colored  
debate  
dependent  
expecting  
February  
ideal  
industry  
maybe  
modern  
neighbor  
noticed  
passed  
pertaining  
private  
protected  
queer

rapidly  
remembering  
renewed  
seldom  
suppose  
utmost  
written

65%

ache  
aim  
attention  
closely  
convention  
current  
debating  
due  
education  
entirely  
entry  
fare  
hadn't  
instruction  
item  
loan  
neglected  
pattern  
preparing  
prompt  
promptly  
running  
search  
select  
text  
tickled  
tight  
wearing  
weighed

64%

allow  
arrive  
avenue  
average  
bowl  
cherries  
chief  
collect  
crippled  
domestic  
entitle  
fee  
hereby  
interested  
minister  
offered  
ourselves  
prepare

produced  
required  
shipper  
smooth  
surprise  
taste  
therefore  
toward  
tract  
using  
worthy

63%

addition  
against  
ankle  
complaint  
constant  
depot  
didn't  
direction  
directly  
entered  
entertainment  
exciting  
following  
general  
gentlemen  
gotten  
group  
hasn't  
hello  
honor  
interest  
period  
prayer  
replying  
separate  
struggle  
tanning  
violin

STEP 12—58%

62%

ability  
advanced  
avoid  
blackberries  
carefully  
creamery  
daddy  
describe  
duties  
entertain  
entire  
favorable

followed  
guide  
independent  
lately  
lining  
management  
moral  
oversight  
parcel  
piece  
proceed  
proof  
regular  
remit  
rifle  
strict  
surprised  
total  
trial  
you'd

61%

advised  
automobile  
biggest  
calves  
choice  
concluded  
conversation  
cute  
decide  
deposit  
deserved  
difference  
final  
musical  
ninth  
preacher  
promotion  
quality  
quiet  
regarding  
whose

60%

advantage  
adventure  
argument  
Bro.  
comfortable  
complete  
confined  
consider  
continued  
debt  
extended  
factories  
future

ghost  
gravy  
inspector  
instant  
interesting  
limit  
lose  
madam  
mamma  
national  
published  
reputation  
shopping  
sire  
slightly  
studied  
vision

59%

alfalfa  
channel  
connected  
contemplated  
decided  
destroyed  
different  
excess  
feature  
firm  
funeral  
laid  
liberal  
maintain  
mention  
natural  
notify  
operation  
pardon  
position  
presume  
procured  
remembered  
republican  
ruin  
satisfied  
service  
style  
supplied  
usual  
whether

58%

appeal  
appeared  
aren't  
braid  
cabinet

capable  
clothe  
connecting  
contrary  
control  
correctly  
doubtless  
either  
enrolled  
entertaining  
favored  
forced  
garage  
growth  
honestly  
loose  
lovingly  
machinery  
manufacture  
mentioned  
misunderstanding  
patent  
pleasant  
prepared  
priced  
register  
represent  
telephone  
theatre  
volume

57%

adjusted  
author  
billed  
cellar  
confer  
division  
drama  
federal  
filing  
installed  
manager  
nephew  
pastor  
president  
prevail  
publication  
secured  
signed  
transfer  
transportation

56%

appointed  
arrange

assure  
cedar  
choose  
considering  
convince  
courage  
crew  
enroll  
exact  
expired  
freight  
furniture  
graduating  
guest  
impossible  
instructed  
junior  
manufacturing  
operated  
popular  
purchase  
refer  
selection  
slight  
studying  
supplies  
vacant  
worried

55%

accept  
advancement  
advertise  
agreeable  
attended  
bass  
collecting  
commence  
concert  
constantly  
effort  
failure  
female  
inclined  
instruct  
liable  
limited  
missed  
publisher  
rendered  
series  
shipped  
special  
transit  
treasurer  
valuable

STEP 13—50%

54%

affair  
awful  
considered  
corrected  
correction  
credited  
doesn't  
effect  
generous  
hesitate  
internal  
library  
liquid  
losing  
neighborhood  
neither  
particular  
possible  
purpose  
receive  
refund  
reliable  
represented  
requirement  
resident  
resulting  
route  
salesman  
selected

53%

advertised  
article  
assist  
automatic  
carrying  
concerning  
consideration  
course  
humor  
increase  
jobber  
largely  
nickel  
patient  
Prof.  
quotation  
reference  
serious  
stomach  
straight  
support  
supposed  
worrying

52%

actual  
cashier  
catalogue  
certain  
crowded  
discourage  
disgusted  
earliest  
exactly  
exam.  
federation  
formerly  
graduation  
increased  
introduction  
medicine  
operating  
opinion  
personal  
practice  
reasonable  
regardless  
slippery  
telegram

51%

absence  
adopted  
bracelet  
calendar  
college  
confidence  
connect  
copies  
desiring  
discontinued  
durable  
employer  
encourage  
expression  
imagine  
realize  
safety  
spirit  
strawberries  
subscriber  
weren't

50%

arrived  
bargain  
commerce  
construction  
deliveries  
easily  
extensive  
graduate

hauled  
justified  
manual  
niece  
really  
satisfaction  
situation  
stationary

49%

arrival  
benefit  
certainly  
coarse  
confident  
convinced  
enrollment  
exception  
favorite  
instance  
involved  
literary  
occupied  
opera  
organized  
positive  
remedy  
satisfactory  
splendid  
succeed  
system  
vary

48%

applied  
attempt  
believing  
circular  
composition  
connection  
considerable  
democrat  
democratic  
good-bye  
haste  
importance  
numerous  
patron  
raiser  
respectfully  
responsible  
strength  
wholesale

47%

accomplish  
announce  
attached  
attain

beginning  
booster  
fierce  
hustling  
investigation  
Latin  
moderate  
personality  
prefer  
rural  
strictly  
tattling

46%

advertising  
all right  
attach  
banquet  
compelled  
cushion  
data  
decrease  
difficulty  
envelope  
establish  
expensive  
fashionable  
happiness  
nervous  
ninety  
process  
relative  
sanitary  
society  
source  
succeeded  
talent  
terrible  
type

STEP 14—42%

45%

absolute  
altogether  
amendment  
approved  
assured  
cartoon  
choosing  
Christian  
concern  
conclusion  
develop  
equally  
exercise  
inducement

label  
notified  
quote  
securing  
themselves

44%

arriving  
attraction  
circulation  
conference  
customer  
elsewhere  
fortunate  
frequently  
honorable  
meant  
mere  
obligation  
policy  
purchased  
reception  
reservation  
suggest

43%

accident  
brief  
celebrate  
citizen  
combination  
established  
glorious  
grammar  
influence  
issue  
planned  
practical  
profitable  
realizing  
relieved  
timothy  
universal

42%

auntie  
available  
canned  
collection  
congratulate  
destination  
difficult  
electrical  
ere  
examine  
government  
gratitude  
heretofore

introduced  
invitation  
justify  
knowledge  
mental  
previous  
qualities  
receiving  
regularly  
resigned  
salary  
stopped  
university

41%

allowed  
companies  
explanation  
grateful  
indicate  
instructor  
insurance  
international  
profession  
sincere

40%

anxious  
assortment  
awfully  
blizzard  
business  
candidate  
congratulation  
contemplating  
etc.  
generally  
identify  
investigate  
legal  
possibly  
readily  
relieve  
satisfy  
sense  
suggested  
surplus  
territory

39%

agriculture  
ambition  
appointment  
assembly  
attractive  
choir  
confirming  
co-operating  
corporation

disease  
estimated  
examined  
impression  
received  
representation  
social  
submitted  
superintendent

38%

barely  
considerably  
design  
equipment  
expense  
experience  
instrument  
material  
registered  
renewal  
Sabbath  
semester  
signature  
subscription  
superior  
urge

## STEP 15—34%

37%

application  
authorized  
coupon  
description  
development  
disagreeable  
disposal  
engineer  
entitled  
error  
majority  
merchandise  
proposition  
successful

36%

advertisement  
agency  
arranged  
confirm  
disappoint  
evidence  
favorably  
genuine  
merely  
organize

supervision  
welfare

35%

appreciate  
assurance  
ballot  
basis  
distribution  
engineering  
heir  
prosperous  
quantity

34%

assistant  
fabric  
illustration  
installment  
merit  
rec'd  
reliability  
variety

33%

activity  
based  
canvass  
conservatory  
co-operative  
crochet  
demonstrated  
electricity  
excitement  
hastily  
literature  
meter  
notary  
presence  
prior  
registration  
secretary  
sympathy

32%

attendance  
client  
compliment  
consequently  
consultation  
duplicate  
employee  
examination  
inst.  
issued  
ordinary  
planning  
practicing  
preliminary

resource  
supervisor  
31%  
absolutely  
accordingly  
assistance  
auditor  
commercial  
council  
existing  
foreign  
magazine  
politics  
various  
vicinity

## STEP 16—27%

30%

administration  
advisable  
allotment  
announcement  
circumstances  
crocheting  
demonstration  
exceptional  
executed  
illustrated  
inquiry  
journal  
organization  
principal  
principle  
remembrance  
similar

29%

acquire  
actually  
assuring  
athletics  
enormous  
fundamental  
girlie  
institute  
naturally  
possess  
response  
straightened  
thesis  
unusual

28%

acquainted  
arrangement  
assignment  
completely  
convenient

co-operation  
examiner  
excellent  
extreme  
finally  
gradually  
orchestra  
particularly  
permanent  
preparation  
quantities  
senior  
substitute  
X-ray

27%

additional  
administrator  
admission  
applicant  
civics  
commission  
consequence  
evidently  
inquires  
institution  
premium  
receipt  
satisfactorily  
usually

26%

algebra  
appearance  
assume  
correspond  
immense  
judgment  
official  
physician  
probably  
thorough

25%

attitude  
carnival  
constitution  
continuous  
customary  
disappointed  
equipped  
individual  
occasionally  
original  
possibility

24%

alumni  
approval  
bulletin

confirmation  
cordially  
decision  
disappointment  
epidemic  
exhibit  
familiar  
geometry  
illustrating  
interfere  
sincerely

STEP 17—21%

acquaintance  
annual  
annually  
association  
essential  
exclusively  
exhausted  
grippe  
maturity  
necessary  
opportunity  
remittance  
representative  
unusually

22%

assigned  
certificate  
character  
communication  
enthusiastic  
librarian  
personally  
privilege  
regretting  
science  
surgery

21%

assessment  
especially  
extremely  
inferior  
mechanical  
prosperity  
responsibility

20%

acceptance  
accordance  
agricultural  
associated  
attorney  
circuit

mortgage  
occasion  
physical  
solicit  
19%  
accompanying  
bonus  
campaign  
cordial  
correspondent  
executive  
license  
professional  
specification

STEP 18—16%

18%  
appreciating  
bureau  
convenience  
exceptionally  
extension  
Hallowe'en  
legislation  
necessity  
pneumonia

17%

accomplished  
affidavit  
appreciation  
commissioner  
community  
inconvenience  
originally  
practically  
recommend  
referred  
scientific  
unnecessary

16%

candidacy  
capacity  
efficient  
exhibition  
financial  
guaranteed  
immediately  
leisure  
sufficient

15%

acknowledge  
anticipate  
correspondence  
fraternally  
referring

14%  
analysis  
appreciated  
enthusiasm  
immediate  
possession  
tuberculosis

STEP 19—12%

13%  
accredited  
apparatus  
authority  
thoroughly

12%  
accommodate  
associate  
courteous  
peculiarities  
phosphorus  
11%  
affectionately  
ambitious  
politician  
specially

10%  
anniversary  
conveniently  
recommendation

STEP 20—8%

9%  
definite  
ingredients  
materially  
8%  
chautauqua  
committee  
definitely  
zephyr

7%  
anticipating  
guarantee  
rheumatism  
soliciting

STEP 21—6%

6%  
efficiency  
lieutenant  
5%  
appendicitis  
schedule

STEP 22—4%

4%  
characteristic





**SECTION XIII**

**THE IOWA SPELLING SCALE**

**GRADE VI**

## GRADE VI

### STEP 1—100%

age	long
and	may
as	me
away	more
best	most
big	must
bill	my
book	name
boy	old
but	on
call	one
can	out
care	over
clear	place
cover	put
dear	read
did	reader
dog	real
door	rest
dress	run
each	said
end	same
ever	say
fast	see
father	she
feet	should
found	stand
from	tell
get	thank
give	that
go	the
gold	them
good	they
grand	thing
happy	this
has	train
he	tree
helping	under
his	walk
hog	walked
home	was
how	way
if	we
is	went
it	what
just	when
lake	will
large	wish
larger	with
let	working
live	year

### STEP 2—99%

able	got
about	grass
add	green
all	hard
along	have
am	head
an	help
apple	hold
are	holding
at	ice
back	in
bad	inside
ball	into
bank	July
be	land
bell	last
better	lay
bird	letter
black	light
blank	like
blow	little
box	lot
butter	love
check	made
child	make
city	man
clean	May
coat	milk
cold	Monday
come	move
cook	much
corn	myself
could	never
day	not
deal	nut
dinner	oil
do	other
doing	park
down	pay
eat	peach
even	play
face	rain
farm	rich
farming	ride
faster	ring
fat	rock
fire	rust
fish	saying
five	school
food	sell
girl	send
	seven
	ship

show  
singing  
small  
snow  
so  
soil  
some  
spell  
sport  
state  
stay  
stone  
table  
take  
taken  
ten  
test  
thanking  
think  
three  
till  
time  
top  
understanding  
up  
us  
very  
wagon  
washing  
well  
west  
wheat  
while  
who  
why  
wide  
window  
without  
wood  
work  
worked  
would  
yet  
you  
your

**STEP 3—98%**

after  
ago  
air  
arm  
around  
art  
ask  
bake  
barn

battle  
because  
bee  
brand  
bring  
brother  
bunch  
by  
cake  
came  
cannot  
car  
card  
case  
changed  
class  
clock  
close  
contest  
country  
covering  
cow  
cross  
cut  
dark  
date  
Dec.  
December  
delay  
early  
eight  
every  
eye  
fail  
fall  
fill  
foot  
for  
four  
free  
Friday  
game  
gave  
going  
grade  
had  
hand  
hat  
hay  
heat  
her  
hill  
him  
homesick  
hot  
hour  
house

however  
hunt  
ill  
ink  
Jan.  
June  
keep  
kind  
labor  
lady  
late  
law  
life  
lived  
longer  
look  
looking  
lost  
loved  
mark  
market  
master  
meal  
mill  
mine  
money  
mother  
nation  
near  
next  
night  
nine  
noon  
note  
Nov.  
of  
off  
once  
outside  
page  
paper  
part  
pick  
please  
point  
poor  
post  
print  
reach  
red  
remove  
rent  
report  
river  
room  
rush  
sample

sand  
saw  
seed  
seeing  
shall  
sheep  
sick  
sickness  
silk  
slow  
soon  
south  
spelling  
spend  
spot  
spring  
standing  
start  
stop  
store  
stove  
such  
summer  
sweet  
swell  
talking  
thinking  
to-day  
ton  
trip  
Tuesday  
two  
unless  
used  
wall  
want  
wanting  
week  
white  
wife  
wild  
wishing  
within  
worker  
yard  
yellow  
yes  
yourself  
zone

**STEP 4—96%**

**97%**

above  
adding  
again  
agree

alone	fur	renter	bottle
any	glad	rice	bought
asked	glass	Sat.	boxes
baby	gone	sat	braid
backing	growing	sent	burn
band	half	set	buy
banker	handy	shoe	called
banking	harder	sink	cap
basket	harvest	sister	cash
bat	held	six	cattle
bed	here	size	charge
being	high	sleep	charming
below	holder	snowed	children
beside	horse	soap	clay
birthday	hundred	sound	coast
blue	hunting	space	cool
body	joy	stick	cost
bother	killed	sum	cotton
branch	kindly	sun	dandy
bringing	kindness	talk	depend
building	landing	tank	dressed
bushel	leader	teaching	drive
calling	left	then	dust
cat	looked	thin	earning
cent	low	to-night	enter
chair	luck	took	farmer
change	ma	town	few
Christmas	mad	treat	figure
clothing	mail	try	first
coal	maker	unable	flower
coin	meat	walking	forget
count	morning	wash	fort
counting	Mr.	water	friend
crop	net	whatever	fruit
dance	north	where	garment
danger	number	wind	gate
deep	office	winter	gather
display	only	wire	gift
dollar	our	write	given
done	oven	yearly	glasses
drop	overcoat		grain
earth	pack	added	great
east	party	ahead	ground
edge	people	alive	hang
far	per	also	hate
feed	picture	another	himself
fell	pig	anyone	hit
fellow	pin	asking	inch
felt	pine	become	inches
fifty	plate	behind	income
fight	playing	belonging	jump
finding	pound	belt	kid
fishing	price	block	kinder
forgot	proper	blood	king
form	rail	board	learn
fun	reading	boat	leave
	ready	boss	leg

96%

lesson  
lift  
listed  
longest  
lunch  
mailed  
March  
marking  
mouth  
mud  
music  
newspaper  
nice  
no  
nothing  
ocean  
Oct.  
October  
older  
oldest  
or  
order  
outfit  
paint  
papa  
paying  
payment  
person  
phone  
pink  
pleased  
printed  
provide  
pure  
quart  
raised  
rate  
reached  
remain  
remark  
request  
return  
road  
roof  
row  
sack  
sad  
saved  
sending  
settle  
sheet  
shop  
short  
shut  
simple  
sir  
sixty

slip  
smart  
soft  
sold  
song  
spent  
spoke  
stamp  
started  
stated  
station  
study  
sunshine  
Sunday  
supper  
teacher  
telling  
tent  
than  
third  
track  
trained  
trunk  
war  
were  
whenever  
willing  
wise  
wool  
word  
worth

STEP 5—94%

95%

act  
bay  
bet  
blame  
booklet  
born  
brick  
bridge  
brush  
calf  
camp  
carpet  
chicken  
cities  
club  
company  
cord  
cup  
dad  
darling  
dead  
dearly

degree  
delighted  
died  
draft  
dream  
drew  
eighty  
enough  
evening  
Feb.  
fence  
filling  
follow  
forgive  
former  
frost  
glove  
goat  
goose  
grove  
handle  
hear  
heating  
hereafter  
inspect  
job  
kill  
kiss  
learned  
leather  
liver  
maple  
mate  
mean  
meet  
meeting  
mend  
moved  
new  
now  
obtain  
oh  
open  
otherwise  
own  
painted  
passing  
pen  
pie  
plain  
pole  
press  
pump  
quick  
range  
rank  
recover

rented  
renting  
rolling  
rose  
rule  
seat  
seem  
seen  
self  
selling  
Sept.  
shame  
shipment  
side  
sin  
snowing  
son  
sort  
spending  
step  
stood  
stump  
sugar  
taking  
teach  
teeth  
tenth  
tested  
thereafter  
these  
thick  
thousand  
ticket  
tire  
told  
trace  
true  
trust  
trusting  
twice  
understood  
value  
wake  
watch  
win  
world  
young  
  
advance  
afternoon  
always  
amount  
army  
aunt  
auto  
beat  
become

94%

been	offering	awhile	many
between	pain	bear	matter
bright	partly	began	member
brought	pass	bench	might
build	payable	branches	mighty
catch	pending	broken	nature
center	pillow	chain	nerve
chart	post card	chop	nicely
cleaning	power	church	nose
cloth	pride	cleaned	overlooked
coffee	pull	closed	pa
contract	railroad	colder	packing
cooking	rained	content	painting
crib	recall	copy	pair
dare	removed	correct	plenty
dealing	reported	cottage	pocket
depending	round	court	postage
discount	rushed	cream	prevent
doctor	scout	cure	printer
egg	season	damage	protest
English	seventh	daughter	ranch
enjoy	seventy	dearest	reaching
feeding	silver	death	repair
file	skate	deed	respect
finish	something	don't	retain
finished	sometime	dresser	rod
fit	somewhat	drug	rubber
flat	sorry	drum	September
funny	speak	easy	serve
garden	stage	enclose	share
getting	steam	everybody	shortly
gladly	still	exchange	showed
goldfish	street	fact	sit
grant	strongest	farther	slipper
granted	subject	fine	smaller
greater	thankful	folder	somewhere
hall	those	folk	sooner
hardly	thread	fully	speaker
heap	trying	gain	starting
heavy	twenty	gallon	staying
hen	upon	ha	stranger
January	vacation	hair	tend
joyful	vote	handed	there
kitchen	weather	happen	Thursday
kitten	western	hearing	tip
know	wet	herewith	training
lame	whereby	history	twelve
least	wrote	indeed	union
list		island	united
load		jar	valued
locate		leaves	weak
lower		liberty	wedding
lump		likewise	welcome
match		loaded	withdraw
nearly		located	yesterday
noise		lone	
oats		lovely	

STEP 6—92%

93%

agent  
answer  
anything  
asleep  
ate

92%	largest	cleaner	requested
address	learning	closer	requesting
already	less	cloudy	require
appear	living	cutting	respond
April	loyal	delightful	rug
aside	merry	demand	sale
August	moment	desire	saving
author	mostly	elect	scale
bean	named	eve	second
before	nearer	everyone	snap
belong	neck	everything	stock
bite	need	extend	taught
both	nobody	extra	tax
broke	officer	fear	team
busy	ordering	feeling	their
cane	patch	fixed	thought
can't	planted	forest	tile
carry	present	freeze	title
cast	printing	French	to
caused	production	froze	treated
charged	proved	frozen	understood
checking	public	gained	washed
chum	queen	greeting	wear
classes	reason	grown	whole
contain	renew	having	
cooler	returned	hence	STEP 7—88%
county	safe	herself	90%
damp	shed	hole	acting
dated	shot	including	aim
does	sixth	ivory	almost
dozen	square	joke	ashamed
drill	strongly	judge	Aug.
duty	studies	knowing	beef
expert	trade	leaving	bid
express	uncle	listen	builder
family	use	lives	changing
fancy	visit	location	cheap
filled	waited	mailing	cheaper
flesh	waiting	membership	coasting
fresh	wanted	mind	conduct
friendly	wheel	Miss	contained
front	which	news	continue
grandfather	wished	none	corner
grandma	wonder	normal	daily
gray	wrong	package	deeply
higher	zero	plow	die
honest		pools	direct
hurt	91%	postal	dispose
instead	active	product	dread
invited	among	program	ease
iron	answered	provided	enjoyed
itself	anybody	race	excuse
join	beg	raise	extent
joined	behalf	reduce	factory
keeping	Bible	remind	failed
kisses	broad	render	fair
lace	chance	reply	
	chapter		



favor  
 flavor  
 floor  
 formed  
 frame  
 fuel  
 gaining  
 grind  
 grit  
 heard  
 hoped  
 I'm  
 inasmuch  
 information  
 junk  
 lamb  
 lumber  
 making  
 met  
 miss  
 neat  
 nor  
 noted  
 November  
 object  
 ours  
 packed  
 pearl  
 pencil  
 picking  
 plan  
 played  
 poorly  
 porch  
 politics  
 prove  
 providing  
 rabbit  
 reaches  
 reserve  
 right  
 sash  
 seal  
 secure  
 several  
 sight  
 someone  
 sore  
 speed  
 suppose  
 surface  
 temple  
 through  
 tie  
 township  
 toy  
 travel

turn  
 turned  
 velvet  
 voter  
 watching  
 weary  
 weekly  
 wishes  
 woven  
 youth  
 89%  
 absent  
 action  
 afraid  
 amounting  
 answering  
 anyhow  
 anyway  
 anywhere  
 apart  
 attend  
 begin  
 bottom  
 bugs  
 button  
 cared  
 central  
 cheer  
 chill  
 clearly  
 closing  
 comfort  
 deliver  
 detail  
 devoted  
 during  
 factor  
 feeder  
 foolish  
 force  
 German  
 glee  
 helped  
 hurry  
 idea  
 I'll  
 improved  
 intended  
 invite  
 knew  
 ladies  
 language  
 latter  
 leaf  
 lodge  
 loud  
 lung

meantime  
 mistake  
 nap  
 notice  
 orange  
 painter  
 pavement  
 posted  
 presented  
 prize  
 property  
 raw  
 reduction  
 regret  
 relation  
 riding  
 rip  
 score  
 seemed  
 setting  
 shape  
 stair  
 steel  
 suit  
 thirty  
 thus  
 together  
 tried  
 valley  
 won  
 won't  
 88%  
 acre  
 acted  
 against  
 artist  
 blew  
 boiler  
 careful  
 climate  
 colt  
 dancing  
 delivered  
 dodge  
 election  
 enclosed  
 except  
 fashion  
 field  
 fifth  
 find  
 forth  
 greatest  
 grew  
 hardware  
 hotel  
 household

improve  
 inclosed  
 increasing  
 industry  
 inform  
 informed  
 intend  
 kindest  
 later  
 latest  
 local  
 message  
 movement  
 moving  
 noticed  
 organ  
 owned  
 perhaps  
 phoned  
 placed  
 plum  
 properly  
 proud  
 recovered  
 reduced  
 repeat  
 result  
 retail  
 returning  
 ribbon  
 rye  
 says  
 silence  
 suffering  
 talked  
 text  
 throat  
 treatment  
 trouble  
 uniform  
 wait  
 warm  
 witch  
 worm  
 87%  
 across  
 attending  
 begun  
 bigger  
 birth  
 bluff  
 cause  
 concluded  
 cousin  
 discovered  
 duties  
 example

expressed	tiny	modern	enjoying
finest	useful	Mrs.	entering
finger	visiting	narrow	firm
fix	writer	odd	fitting
ford		owe	illness
future	STEP 8—84%	pastor	inspector
gas		peace	instruction
gasoline	86%	perfect	ironing
geography	adjust	permit	length
graze	admit	piano	linen
health	advice	pleasure	main
helpful	afterward	prevented	mister
highest	apply	promotion	mountain
holiday	await	quickly	parlor
include	awaiting	quoted	perfectly
inviting	barley	rack	placing
kept	beauty	saver	prepared
known	beet	shade	promised
laugh	built	skirt	prospect
lighting	capital	stating	running
liked	carrier	student	saddle
lonesome	checked	throughout	slide
lucky	coach	too	steady
maid	common	topic	though
married	condition	total	tired
middle	credit	turkey	traveling
month	dairy	visited	voice
monthly	deportment	wage	weight
northern	dice	waist	women
nurse	directed	wasn't	wonderful
offered	eager	whom	
opening	eleventh	workmanship	84%
powder	else	worse	advanced
pretty	fifteen		afloat
private	figured	85%	ans.
proven	film	account	baking
raising	final	adopted	barrel
rapid	flour	advising	beyond
rapidly	following	aware	breaking
record	football	badly	bulk
refuse	general	balance	butcher
relationship	germ	base	chairman
reliable	globe	bit	chose
required	gown	brown	circus
Saturday	guess	carried	clerk
scare	handled	coming	clever
settlement	honor	comply	collect
since	housekeeping	containing	color
single	ideal	conversation	dealer
sock	improving	cough	decline
soldier	investment	covered	district
spread	lecture	debate	dwelling
storm	lie	deserve	forwarding
strike	lonely	directly	frankly
stuff	lowest	dirty	handling
submit	machine	disposed	handsome
suitable	manage	drilling	healthy
		eighteen	herein

husband  
inclose  
included  
instruct  
letting  
million  
model  
needing  
nevertheless  
ordered  
penny  
performed  
personal  
primary  
protected  
publisher  
regulation  
renewed  
simply  
sis  
slept  
spare  
stamped  
statement  
supply  
sure  
taxes  
thereof  
upper  
view  
winner  
worry

83%

abstract  
ache  
advantage  
although  
ample  
animal  
appeal  
arrange  
automobile  
backed  
beaten  
breakfast  
cheerful  
companion  
delayed  
elected  
feel  
fourteen  
fourth  
fund  
furnishing  
habit  
important

inclosing  
knot  
neighbor  
notion  
outlined  
owner  
parties  
pertaining  
proof  
pupil  
quiet  
quite  
recess  
refreshment  
refund  
resulting  
roll  
served  
shoulder  
sign  
skating  
success  
that's  
unpaid  
until  
written

82%

adventure  
boarding  
buyer  
candle  
cement  
couple  
debating  
depot  
education  
explained  
famous  
forward  
foundation  
gotten  
haven't  
headquarter  
homestead  
insert  
limb  
limit  
method  
minute  
moral  
needed  
neglect  
past  
plainly  
presume  
promise

question  
scarce  
server  
serving  
sew  
sitting  
sorrow  
standard  
stories  
throw  
tread  
weighed  
worthy  
yoke  
you'll

STEP 9—79%

81%

agreeable  
agreed  
avenue  
blessed  
bowl  
break  
captain  
caught  
collection  
connect  
considering  
coy  
curtain  
delivery  
dose  
effort  
excess  
expected  
expecting  
explain  
factories  
fault  
feature  
furnace  
future  
guide  
headache  
hurried  
instructed  
I've  
mass  
misses  
needle  
o'clock  
oversight  
pattern  
post office  
problem

prompt  
quantity  
reputation  
ruin  
secured  
select  
sewing  
struck  
supplied  
term  
we'll  
writing

80%

addition  
aid  
Ave.  
average  
booth  
chief  
convention  
crazy  
desired  
direction  
division  
either  
enclosing  
excited  
fare  
female  
fern  
forwarded  
greatly  
grip  
group  
growth  
hospital  
inquire  
loss  
minister  
ought  
picnic  
prepare  
profit  
resident  
settled  
shown  
sleet  
utmost  
vision  
woman  
yourselves

79%

adjustment  
ankle  
attention  
bog

burden	crowd	piece	towel
buying	destroyed	progress	voting
cellar	due	putting	watched
colored	forty	reasonable	75%
constant	further	regard	accept
correction	gland	regular	accomplish
crew	humor	remembering	addressed
different	instant	replying	appointment
dreadful	manufacture	republican	assist
earnest	mentioned	route	attractive
entertainment	musical	selection	biggest
favorable	namely	service	closely
avored	neighborhood	situation	connecting
fee	parent	subscriber	connection
fitted	patient	sweater	constantly
forenoon	preacher	tight	couldn't
fortune	promptly	touch	creamery
friendship	quit	truly	doubt
furnished	rainy	weigh	effect
happened	recently	worst	enroll
human	regarding	wouldn't	entertaining
intention	represent		entire
invoice	section	STEP 10—73%	exactly
manner	shipping	76%	figuring
mention	shock		gentleman
natural	special	applied	hasn't
oblige	waste	attached	honestly
obtained	Xmas.	attempt	hoping
opened		cabinet	interested
reception	77%	certain	international
recite	addresses	choose	its
refused	allow	consider	moderate
remember	arrive	construction	ourselves
rendered	assure	convince	per cent
rough	buggy	creep	position
scrap	carefully	domestic	produced
seldom	certainly	employed	publication
tanning	consist	entitle	represented
telephone	current	failure	rifle
Thanksgiving	dangerous	fairly	studied
toward	director	fullest	supplies
trial	entered	garage	surprise
volume	extended	gee	ticked
Wednesday	federal	grocery	transfer
	forced	interesting	wondering
78%	handkerchief	level	74%
according	hare	likely	absolute
actor	hers	measure	automatic
adjusted	I'd	owing	avoid
blackberries	installed	popular	collar
blooming	isn't	prayer	commerce
cherries	lbs.	prepaid	complaint
cigar	loan	priced	courage
comfortable	loving	produce	deserved
complete	machinery	receive	drama
confined	obliged	slippery	entry
crippled	particular	smooth	fever

filing  
importance  
independent  
internal  
jury  
laid  
largely  
loose  
madam  
manager  
neglected  
opera  
parcel  
procured  
quarter  
quote  
refer  
register  
seller  
shopping  
strength  
supervision  
to-morrow  
tract  
Tues.  
usual  
violin  
we've  
whose  
you'd

73%

appointed  
Bro.  
calm  
circulation  
correctly  
dependent  
difference  
easily  
extensive  
ghost  
gravy  
hadn't  
increase  
justified  
nineteen  
organized  
president  
proceed  
queer  
signed  
sire  
slightly  
spirit  
treasurer  
using

72%  
advertise  
arranged  
arrived  
attraction  
bargain  
choice  
circular  
college  
commence  
composition  
concern  
conclusion  
considered  
cute  
desiring  
durable  
encourage  
enrolled  
entertain  
entirely  
exception  
exciting  
expired  
followed  
freight  
gentlemen  
hesitate  
improvement  
liberal  
neither  
preparing  
Prof.  
remained  
rural  
selected  
shipper  
slight  
social  
stayed  
style  
surprised  
telegram  
therefore

71%

ability  
absence  
accident  
actual  
advise  
advised  
aren't  
argument  
booster  
braid  
channel  
confident

consideration  
debt  
decided  
deposit  
described  
exam.  
favorite  
hello  
increased  
indicate  
interest  
introduced  
issue  
pardon  
period  
remembered  
remit  
satisfied  
splendid  
strict  
struggle  
supposed  
taste  
wearing

70%

appeared  
assured  
awful  
carrying  
considerable  
contrary  
control  
course  
credited  
crowded  
employer  
explaining  
explanation  
expression  
forgotten  
funeral  
instance  
introduction  
Latin  
limited  
maybe  
medicine  
nervous  
notify  
occupied  
passed  
positive  
prevail  
reservation  
satisfaction  
separate  
straight

support  
vacant

STEP 11—66%

69%

accordingly  
approved  
attain  
bracelet  
calves  
cedar  
collecting  
combination  
connected  
convinced  
copies  
corrected  
doubtless  
earliest  
enrollment  
February  
furniture  
graduating  
grammar  
gratitude  
guest  
lately  
library  
lovingly  
realize  
relieve  
satisfactory  
search  
securing  
serious  
system  
themselves  
weren't  
whether

68%

capable  
citizen  
concerning  
daddy  
discontinued  
elsewhere  
graduation  
invitation  
item  
liquid  
numerous  
obligation  
possible  
published  
really

shipped	received	cashier	doesn't
superior	salesman	choosing	evidently
67%	theater	conference	identify
advancement	transportation	customer	jobber
advertised	valuable	discourage	material
attended	64%	envelope	various
believe	additional	fabric	58%
continued	arrival	knowledge	anxious
didn't	article	lose	assistant
exact	assembly	missed	candidate
examination	clothe	possibly	compelled
examined	decide	prefer	cushion
frequently	decrease	profession	difficult
generous	deliveries	regardless	equipment
hustling	evidence	salary	excellent
impossible	genuine	sincere	exceptional
influence	happiness	suggested	investigation
manufacturing	hereby	transit	majority
ninth	honorable	61%	practice
operated	inclined	advertising	proposition
profitable	investigate	alfalfa	relative
recent	management	allowed	strictly
reference	misunderstanding	announce	successful
satisfy	patron	believing	welfare
66%	purchased	congratulate	57%
applicant	purpose	corporation	assortment
available	raiser	examiner	democratic
celebrate	realizing	expensive	electrical
companies	signature	fierce	entitled
confirm	studying	liable	equally
contemplated	worried	mamma	impression
Dr.	65%	mental	inducement
federation	affair	operation	instructor
maintain	arriving	process	instrument
national	attach	receiving	lining
opinion	banquet	reliability	literary
policy	brief	60%	manual
quotation	confer	activity	mere
remedy	design	application	meter
requirement	destination	cartoon	presence
resigned	disgusted	develop	previous
society	exercise	engineer	qualities
vary	graduate	establish	representation
wholesale	inquiry	expense	senior
65%	junior	glorious	series
agriculture	purchase	haste	timothy
alley	registered	legal	worrying
canned	respectfully	nephew	56%
concert	source	operating	character
fashionable	strawberries	safety	confidence
formerly	submitted	sanitary	development
heir		stomach	etc.
insurance	STEP 12—58%	tatting	examine
involved	62%	terrible	foreign
niece	altogether	59%	government
patent	billed	Christian	hailed
pleasant		democrat	

imagine  
organize  
personality  
renewal  
stopped  
succeed

55%

acceptance  
ambition  
amendment  
bass  
business  
catalogue  
choir  
confirming  
constitution  
difficulty  
disease  
error  
extreme  
generally  
issued  
losing  
magazine  
orchestra  
politics  
prosperous  
regularly  
territory  
type  
variety

## STEP 13—50%

54%

assigned  
authorized  
beginning  
benefit  
crochet  
customary  
favorably  
merchandise  
ninety  
occasion  
original  
possession  
similar  
succeeded

53%

awfully  
completely  
considerably  
decision  
demonstrated  
description  
disposal

established  
exclusively  
gradually  
notified  
particularly  
planning  
principal  
readily  
suggest  
supervisor  
university

52%

advertisement  
assistance  
blizzard  
calendar  
commercial  
data  
estimated  
responsible  
sense  
stationary  
talent  
universal

51%

appearance  
crocheting  
ere  
fortunate  
inferior  
label  
meant  
nickel  
practicing  
probably  
admission  
agency  
appreciate  
assurance  
barely  
carnival  
coarse  
excitement  
registration  
sympathy

49%

announcement  
attendance  
attitude  
contemplating  
duplicate  
engineering  
heretofore  
institution  
urge

48%

accomplished  
acknowledge  
attorney  
consultation  
co-operation  
disappoint  
distribution  
electricity  
existing  
experience  
illustrated  
preliminary  
premium  
relieved  
Sabbath  
straightened  
usually

47%

congratulation  
consequently  
enormous  
installment  
librarian  
naturally  
ordinary  
secretary  
superintendent

46%

assignment  
assuring  
based  
council  
disagreeable  
employee  
exhibit  
girlie  
good-bye  
grateful  
hastily  
illustrating  
preparation  
resource  
semester

## STEP 14—42%

45%

administration  
appreciation  
athletics  
cordial  
planned  
practical

44%

appreciated  
civics

co-operative  
coupon  
finally  
literature  
merit

43%

administrator  
approval  
auditor  
certificate  
co-operating  
correspond  
familiar  
journal  
legislation  
merely  
organization  
quantity  
response  
surgery  
surplus

42%

accordance  
arrangement  
circumstances  
conservatory  
correspondent  
individual  
justify  
principle

41%

agricultural  
assume  
auntie  
demonstration  
extension  
illustration  
immense  
inquires  
necessary  
remembrance  
subscription  
substitute  
unusual

40%

commission  
communication  
mechanical  
practically  
prior  
receipt  
remittance

39%

actually  
continuous  
epidemic

possess  
professional  
science  
specification  
vicinity

38%

advisable  
all right  
authority  
ballot  
basis  
geometry  
interfere  
rec'd  
scientific

STEP 15—34%

37%

absolutely  
annually  
associated  
exhausted  
official  
regretting

36%

acquainted  
consequence  
inst.  
judgment  
permanent  
specially  
thesis

35%

ambitious  
annual  
bureau  
client  
convenient  
cordially  
disappointed  
immediate  
institute  
personally  
physician  
possibility  
quantities  
representative

thorough  
X-ray

34%

compliment  
exceptionally  
executed  
executive  
license  
notary  
sufficient

33%

allotment  
associate  
materially  
occasionally  
opportunity

32%

acquaintance  
algebra  
courteous  
financial  
sincerely

31%

accredited  
acquire  
alumni  
association  
disappointment  
enthusiastic  
extremely  
leisure  
prosperity

STEP 16—27%

30%

circuit  
soliciting  
affectionately  
anticipating  
capacity  
commissioner  
unusually

28%

bonus  
community

immediately  
recommend  
referred  
responsibility  
satisfactorily

27%

bulletin  
canvass  
conveniently  
fraternally  
referring

26%

candidacy  
committee  
equipped  
inconvenience  
maturity  
necessity  
physical  
tuberculosis

25%

campaign  
correspondence  
especially  
fundamental  
privilege  
solicit

24%

anticipate  
assessment  
confirmation  
enthusiasm  
grippe

STEP 17—21%

23%

accompanying  
convenience  
essential  
exhibition  
Hallowe'en  
originally

22%

definite  
mortgage  
politician

21%  
accommodate  
appreciating

20%

affidavit  
analysis  
chautauqua  
unnecessary

19%

recommendation

STEP 18—16%

18%

apparatus  
pneumonia

17%

anniversary  
appendicitis  
guarantee  
lieutenant  
thoroughly

16%

efficient  
zephyr

STEP 19—12%

13%

definitely  
phosphorus

11%

characteristic

10%

ingredients  
rheumatism

STEP 20—8%

9%

efficiency  
guaranteed  
peculiarities  
schedule





**SECTION XIV**

**THE IOWA SPELLING SCALE**

**GRADE VII**

## GRADE VII

### STEP 1—100%

able	fall
about	farm
adding	fast
afternoon	faster
again	fell
age	fellow
air	fish
all	five
alone	forgive
an	from
are	gate
arm	get
art	girl
asking	give
at	glove
be	go
because	gold
bell	good
best	got
better	grade
bill	grain
black	had
book	half
box	hand
boy	happy
brain	have
bring	help
but	helping
call	her
called	him
came	his
can	home
car	hot
card	how
case	ice
charge	if
class	inside
coat	into
come	is
corn	it
could	June
country	just
cut	kind
day	land
deep	large
did	last
do	late
dog	left
early	lesson
eat	let
every	letter
eye	like
fail	little
	live

long	stick
looking	stone
lot	such
make	take
man	taken
many	teaching
master	tall
me	test
milk	that
more	the
most	then
mother	think
must	thinking
my	this
name	time
neck	top
net	toy
Nov.	train
nut	tree
old	unable
on	unless
one	up
out	us
paper	very
park	wall
pay	was
people	way
pick	we
pig	well
place	west
pleased	what
point	when
postage	while
put	who
reading	why
rest	wife
row	will
rule	window
run	winter
school	with
see	without
sell	word
send	work
she	working
silk	year
sister	yellow
six	your
snow	
some	
space	
stage	
start	
started	
state	

### STEP 2—99%

above  
active  
add  
added

after	display	light	railroad
ago	doing	longer	rain
ahead	down	longest	rate
along	dress	look	reach
also	drop	love	read
am	each	loved	real
answer	earth	mad	red
any	east	made	report
ask	edge	mail	ride
away	eight	mailed	ring
baby	eighty	maker	river
back	face	market	rock
backing	farming	may	rush
bad	fat	meal	rust
band	fight	mean	sad
bank	filled	mill	said
banker	finding	Monday	Sat.
bean	fine	money	sat
bed	flat	mostly	saw
been	food	much	say
behind	for	mud	saying
belonging	found	music	seat
below	free	myself	self
big	game	night	shall
bird	getting	nine	sheep
birthday	given	north	ship
blank	glad	not	shoe
blue	going	note	short
bought	gone	notice	should
bright	grant	number	showed
bringing	green	oats	sick
brother	handed	of	sign
bunch	hang	oil	sixty
butter	has	older	slow
by	he	oldest	snowed
calf	head	our	so
cannot	hill	outside	son
cap	holding	oven	song
cash	hour	over	sound
catch	house	overcoat	spell
cent	however	pack	spend
child	ill	page	sport
children	in	paying	spot
clean	ink	payment	spring
clear	Jan.	pen	stamp
close	joy	picking	stand
cold	July	pie	standing
cost	kindly	plate	stay
cream	kiss	play	still
cross	lace	playing	store
cup	lady	please	subject
dandy	lake	poor	summer
danger	landing	press	Sunday
dear	larger	print	sweet
December	law	proper	swell
dinner	leader	quick	table
discount	leave	rail	thank

thanking	April	delighted	income
them	as	died	inspect
they	Aug.	dispose	invited
thing	aunt	door	January
three	bake	drill	jump
till	ball	drug	keep
tire	bat	drum	keeping
told	battle	dust	kid
took	become	easy	kill
town	bee	end	kinder
trip	behalf	evening	kindness
trust	belt	ever	king
trusting	beside	example	labor
try	blood	exchange	ladies
twice	boat	express	lay
two	body	far	learned
under	booklet	fear	leather
use	boss	feed	life
vacation	bother	feet	lived
value	bottle	felt	liver
walk	boxes	fill	lives
want	branch	filling	living
washing	brush	finish	loaded
week	building	first	lost
went	burn	fishing	luck
were	cake	Friday	mark
whatever	calling	friend	marking
wheat	camp	fully	May
whenever	care	gift	meat
where	carpet	glass	meet
white	chair	glasses	mine
wide	chance	goat	Miss
willing	change	goose	mouth
win	check	grand	Mr.
wind	city	grandfather	nation
wise	classes	granted	near
wish	closed	great	nearly
wishing	cloth	hair	never
wood	club	harder	new
world	coal	hardly	news
would	coffee	hat	nobody
wrote	coin	hay	noon
yard	conduct	hearing	off
yes	contest	heat	once
yet	continue	heating	only
you	cook	heavy	or
zone	counting	here	other
	covering	herself	packing
	cow	high	paint
	cutting	hit	painted
	dance	hog	part
	dark	holder	party
	darling	hundred	pass
	date	hunt	peach
	deal	hunting	pine
	Dec.	inch	placed
	delay	inches	planted

## STEP 3—98%

act  
agent  
almost  
amount  
and  
another  
apple

pole	spelling	army	father
post	stood	auto	Feb.
pretty	stop	awhile	feel
printed	storm	banking	few
printing	stunt	barn	fifty
provide	sugar	basket	finished
race	sum	bay	fit
raised	sunshine	bear	flower
range	talk	before	folder
rank	talking	begin	foot
ready	tank	being	forget
reduction	telling	belong	four
remain	ten	bench	frost
remove	tested	bet	gain
removal	thin	between	garden
rent	thousand	block	garment
renting	ticket	born	gather
request	to-day	brick	gave
respect	ton	bushel	glee
rich	travel	button	grass
rolling	treat	buy	ground
room	true	cared	growing
round	trunk	cattle	hall
safe	Tuesday	caused	handy
same	twenty	chain	hard
sample	united	chum	hate
sand	used	church	hear
saved	valued	clay	held
seed	visit	clearly	higher
seeing	voter	clock	himself
sending	walked	cloudy	hold
sent	walking	coast	homesick
set	wanting	colder	horse
seven	war	company	I'm
seventh	wash	contain	iron
seventy	washed	cotton	island
shade	watch	count	job
shipment	western	cover	judge
show	which	crop	kitten
shut	wild	dad	know
silver	wool	daughter	largest
sin	worked	dearest	learn
singing	write	deed	leg
single	yearly	demand	less
sink	yesterday	depend	lift
sit	yourself	direct	list
size		dodge	listed
slip		dollar	load
small		don't	local
snowing		dozen	locate
soap		dream	location
soft		drilling	looked
sold		drive	low
soon		egg	lower
sooner		election	lunch
sort		family	machine
south		farmer	maid

STEP 4—96%

97%

abstract  
advance  
aim  
alive  
always  
anyone  
anywhere

mailing	September	wire	funny
March	serve	within	gladly
matter	settle	worker	greater
membership	several	96%	grove
morning	share	anybody	grown
move	sheet	anything	handle
moved	sickness	around	happen
nature	side	asleep	hardware
nice	sleep	backed	heard
no	smart	became	hen
noted	soil	branches	hence
nothing	someone	brand	highest
November	something	brought	history
now	sometime	busy	honest
object	spending	carry	hurt
Oct.	spent	center	improve
office	standard	changed	improved
orange	stated	charged	industry
order	station	cheer	instead
outfit	staying	chicken	jar
painting	steam	Christmas	joined
pair	step	cleaner	learning
papa	stove	cleaning	liberty
per	stranger	cooking	lumber
picture	strongest	cord	making
pin	stuff	cottage	match
pink	suffering	crib	mate
plan	sun	cure	meeting
pleasure	teacher	damp	message
plenty	teeth	dare	mighty
poorly	tenth	dealing	million
pound	than	deeply	mind
prevent	thereafter	degree	named
price	thick	desire	nerve
protest	those	die	next
reached	thought	directed	nicely
reaches	thread	doctor	none
reader	thus	done	nor
recall	to-night	dressed	normal
recover	total	ease	nose
remark	township	English	obtain
renew	trace	enter	October
reported	twelve	even	open
require	uncle	extra	ordering
required	understanding	fact	overlooked
respond	understood	farther	packed
result	union	fence	partly
retain	velvet	figure	patch
return	vote	find	payable
rice	wagon	fire	pencil
road	waiting	follow	person
rose	wanted	forgot	phone
rye	watching	former	potatoes
sack	water	fort	present
secure	welcome	fruit	primary
seem	wet	fun	produce
selling	wheel		product

profit	trying	depending	needed
provided	understand	department	noise
pump	upon	does	ocean
pure	voice	draft	offering
quart	waited	dread	oh
queen	whereby	earning	otherwise
question	wished	enjoying	own
raise	wishes	enough	package
record	won	except	pain
reduce	worth	excuse	passing
regulation	young	extend	pillow
relationship	zero	extent	pocket
render		factory	postal
rented	STEP 5—94%	failed	post card
renter		famous	power
requested	95%	favor	presume
returned	acting	feeling	prize
roof	action	file	program
rubber	address	fix	progress
rug	afraid	floor	public
scale	agree	form	pull
scare	anyhow	formed	raw
second	apart	frame	reaching
seemed	arrived	fresh	reason
seen	August	friendly	regret
Sept.	badly	fur	reply
shame	base	furnish	rushed
shape	beat	gown	score
shot	beg	grandma	scout
sight	begun	grew	season
simple	bid	guess	shop
sir	birth	hoped	skate
smaller	blame	hotel	sorry
snap	blow	insist	speaker
somewhat	bottom	joke	square
somewhere	bridge	killed	suit
speak	broke	kitchen	team
special	brown	knowing	tent
spoke	build	known	thankful
spread	can't	language	thirty
stair	cause	laugh	through
starting	central	length	Thursday
steady	chapter	letting	tie
stock	charming	likewise	trade
street	chop	located	treatment
study	cities	lone	turned
supper	clothing	lonesome	wake
sure	colt	loud	warm
taking	content	lovely	weary
talked	contract	lowest	weather
temple	cooler	lump	wedding
there	court	maple	whole
these	damage	mind	witch
third	dated	might	withdraw
tile	debate	month	worm
tip	debating	monthly	woven
treated	decline		wrong



<b>94%</b>			
among	knew	advantage	moment
answered	lame	already	movement
attend	leaving	ample	narrow
beef	lighting	animal	natural
began	listen	ans.	nearest
Bible	lodge	answering	neat
bite	loving	aside	newspaper
board	lucky	asked	odd
boiler	ma	ate	officer
broken	married	bugs	pavement
builder	meantime	cane	plum
bulk	member	cheap	printer
cat	mistake	checked	promotion
chart	mister	collect	quickly
climate	northern	copy	quoted
comfort	notify	correct	rack
cool	notion	cough	raining
county	opened	daily	recess
dead	ordered	dealer	refuse
dearly	pearl	district	requesting
deliver	pending	division	retail
devoted	played	domestic	returning
duty	powder	dreadful	rod
eighteen	presented	dresser	rough
elect	prevented	during	running
elected	production	duties	sale
else	ranch	education	served
everything	recovered	eleventh	serving
expert	refused	expressed	settlement
explain	relation	factor	sewing
feature	remind	fancy	shock
fifteen	repair	female	sorrow
fifth	repeat	field	stamped
figured	rip	film	stories
fixed	shortly	folk	strongly
flavor	sixth	football	student
flour	sock	force	tend
forest	studies	front	term
froze	supply	geography	their
frozen	taxes	having	throughout
gallon	tried	herewith	tiny
general	trouble	homestead	to
gray	turn	human	track
greatest	uniform	hurry	training
ha	valley	idea	turkey
harvest	visited	include	unpaid
heap	visiting	indeed	useful
hole	watched	informed	winner
I'd	weak	invite	wonder
illness	worry	justify	wonderful
including	youth	kisses	worthy
increase		leaves	
instruct		lecture	<b>92%</b>
itself		loyal	absent
join		measure	acre
joyful		model	afterward
		moderate	aid
			arrive

STEP 6—92%

93%

account  
actor  
addition

## *The Iowa Spelling Scales*

artist	kept	attending	refreshment
attraction	kindest	beaten	regular
barley	lamb	beyond	reliable
barrel	latest	boarding	reserve
beet	least	breakfast	says
bit	liberal	built	shipping
blessed	lonely	candle	silence
blew	lung	caught	simply
bluff	manage	circulation	since
both	merry	circus	skirt
broad	middle	color	speed
burden	modern	common	taste
carried	moving	concluded	taught
cast	need	condition	tax
changing	needle	containing	trained
cheaper	offered	conversation	until
checking	organ	creamery	upper
cigar	ours	dairy	wage
cleaned	painter	detail	written
clerk	parties	difference	
closer	peace	discovered	
coach	perfect	encourage	STEP 7—88%
coasting	permit	enjoyed	90%
companion	pools	entering	according
complete	private	expected	anyway
connecting	prompt	expression	appeal
corner	properly	feeder	ashamed
corrected	prospect	final	attention
covered	proved	followed	aware
credit	rained	foolish	booth
dancing	remember	forth	butcher
death	riding	greeting	buying
delivered	right	habit	chill
directly	sash	household	connect
enjoy	saving	ideal	connected
eve	seal	inform	connection
everybody	setting	intended	couple
everyone	shed	ivory	crazy
feeding	shoulder	junk	delayed
finest	steel	leaf	delightful
finger	suitable	main	dirty
flesh	surface	miss	eager
foundation	though	nevertheless	effort
frankly	throat	owe	enclosed
freeze	title	pastor	entertainment
French	topic	posted	expecting
furnace	wait	pride	fairly
gained	wear	problem	fortune
goldfish	worse	promise	friendship
greatly	writer	protected	fuel
headache		proud	fund
health	91%	prove	furnished
honor	advising	proven	gaining
husband	against	pupil	gas
important	although	quotation	gentleman
information	amounting	rabbit	German
inviting	appear	reduced	gotten
	apply		

grind  
grit  
grocery  
healthy  
I'll  
included  
investment  
later  
level  
liked  
liquid  
met  
minute  
neglect  
neglected  
noticed  
obtained  
owner  
penny  
period  
phoned  
piano  
porch  
prepaid  
providing  
putting  
raising  
rapid  
rapidly  
refund  
remained  
resulting  
saddle  
section  
secured  
sis  
slept  
slipper  
smooth  
social  
statement  
suppose  
Thanksgiving  
vision  
weigh  
weight  
whom  
women  
wondering

89%

absolute  
across  
addresses  
adjust  
advised  
arrange  
assure

author  
automobile  
beauty  
careful  
closely  
contained  
current  
curtain  
dangerous  
debt  
direction  
entered  
failure  
fair  
fashion  
fee  
fierce  
forgotten  
further  
germ  
globe  
grammar  
graze  
guide  
handling  
helped  
hereafter  
hesitate  
honestly  
inclosed  
instruction  
isn't  
jury  
loss  
method  
mountain  
Mrs.  
nap  
neighbor  
opening  
owned  
pa  
per cent  
picnic  
plain  
popular  
property  
recite  
regard  
ribbon  
settled  
sore  
strike  
struggle  
style  
sweater  
text

thereof  
too  
tread  
trial  
wasn't  
won't  
worst

88%

acted  
admit  
advanced  
adventure  
allow  
attended  
Ave.  
avenue  
bigger  
break  
buggy  
cement  
certain  
chairman  
cherries  
chief  
comply  
composition  
consider  
considered  
correctly  
cousin  
crew  
didn't  
difficult  
dwelling  
entire  
exact  
explained  
fault  
following  
forty  
forwarding  
fullest  
furnishing  
future  
gasoline  
gland  
happened  
hare  
helpful  
herein  
holiday  
housekeeping  
increasing  
inspector  
instructed  
lie  
limb

mass  
national  
nurse  
outlined  
parlor  
perhaps  
plow  
possible  
prepare  
president  
promised  
rainy  
register  
renewed  
reputation  
scrap  
seldom  
server  
service  
skating  
slightly  
soldier  
success  
therefore  
tired  
treasurer

87%

agreeable  
agreed  
ambition  
appointed  
approved  
assist  
average  
await  
awaiting  
baking  
balance  
blackberries  
blooming  
buyer  
cabinet  
calm  
carefully  
cheerful  
collection  
coming  
commerce  
consideration  
considering  
construction  
convention  
depot  
desired  
dice  
director

due	clever	copies	colored
enclosing	closing	drama	comfortable
entirely	commence	excess	confined
entitle	courage	favorable	constantly
excited	described	federal	continued
expired	deserve	forced	cute
firm	different	forward	decided
fitted	dose	forwarded	discourage
fitting	earliest	fourteen	either
funeral	effect	growth	enrolled
gentlemen	fare	inclose	error
ghost	fourth	increased	extended
impossible	garage	indicate	avored
improving	gee	intend	federation
inquire	graduation	international	group
ironing	grip	knot	hospital
limit	guest	lately	importance
machinery	handled	limited	inasmuch
manufacture	handsome	linen	inclosing
needing	headquarter	minister	insert
numerous	humor	musical	I've
parent	hurried	namely	misunderstanding
pertaining	intention	obliged	past
placing	interest	o'clock	patent
position	issue	ought	piece
prayer	latter	ourselves	process
prepared	manner	produced	purpose
preparing	oversight	publication	queer
priced	parcel	quality	received
promptly	performed	represented	reception
proof	personal	rifle	relative
publisher	plainly	roll	representation
quiet	post office	route	republican
quite	proceed	select	resident
reasonable	published	seller	saver
Saturday	recently	signed	scarce
sew	represent	sleet	society
slide	selected	strawberries	system
spare	selection	suggest	tanning
strength	situation	themselves	telegram
struck	traveling	together	telephone
submit	whose	to-morrow	that's
throw	yourselves	towel	tract
touch	85%	volume	waste
transportation	ache	woman	Wednesday
truly	advertised	wouldn't	workmanship
view	appeared	84%	83%
waist	avoid	adjusted	absence
weekly	believe	advertise	capable
weighed	bowl	advice	circular
yoke	breaking	advise	citizen
	capital	afloat	confident
	celebrate	ankle	creep
	chose	applied	crippled
	complaint	approval	doubtless
	consist	carrier	earnest
	constant	cashier	enclose

STEP 8—84%

86%

banquet  
bog

enroll  
exam.  
exciting  
factories  
graduate  
graduating  
gratitude  
instance  
insurance  
interesting  
knowledge  
laid  
legal  
manager  
manufacturing  
misses  
owing  
particular  
preacher  
receive  
ruin  
satisfied  
search  
shipper  
shopping  
shone  
stating  
supplied  
supposed  
tight  
violin

82%

accept  
accomplish  
addressed  
adopted  
appointment  
arranged  
arriving  
assured  
assuring  
attached  
attempt  
awful  
biggest  
cellar  
collecting  
concern  
design  
easily  
employed  
entertain  
ford  
generous  
hoping  
improvement  
instant

internal  
material  
mention  
neither  
oblige  
perfectly  
purchase  
quarter  
recent  
remembered  
remit  
replying  
resigned  
salary  
securing  
subscriber  
surprise  
worried  
writing

STEP 9—79%

81%

assembly  
bracelet  
cartoon  
companies  
conference  
delivery  
develop  
disposed  
doubt  
entertaining  
fern  
fever  
freight  
handkerchief  
happiness  
invitation  
item  
loan  
loose  
mentioned  
nephew  
operated  
passed  
pattern  
prevail  
realize  
regardless  
satisfactory  
serious  
sitting  
slight  
spirit  
supplies  
support

theater  
tickled  
toward  
usual  
vacant  
we'll  
Xmas.

80%

actual  
adjustment  
appreciate  
article  
attractive  
booster  
canned  
captain  
course  
credited  
desiring  
exercise  
extensive  
fabric  
figuring  
forenoon  
hello  
inclined  
interested  
jobber  
justified  
library  
likely  
manual  
notified  
positive  
quit  
raiser  
remembering  
rendered  
source  
superior  
universal  
wearing  
you'll

79%

agriculture  
attach  
attain  
authorized  
automatic  
calves  
choose  
collar  
concerning  
convince  
coy  
decrease  
dependent

deposit  
destroyed  
explaining  
filing  
hadn't  
haven't  
hereby  
independent  
institution  
introduction  
lovingly  
management  
moral  
neighborhood  
occupied  
opinion  
patient  
regarding  
requirement  
rural  
stayed  
studied  
voting

78%

ability  
agency  
argument  
certainly  
college  
conclusion  
considerable  
convinced  
couldn't  
daddy  
difficulty  
entry  
established  
exception  
favorite  
finally  
hasn't  
heir  
involved  
lbs.  
nineteen  
opera  
ordinary  
procured  
sanitary  
stationary  
straight  
tattooing  
Tues.  
utmost  
we've  
whether

77%  
accident  
activity  
affair  
arrival  
channel  
concert  
contemplated  
crowd  
deliveries  
democratic  
deserved  
destination  
durable  
establish  
evidence  
exactly  
examined  
February  
hustling  
junior  
liable  
lining  
maybe  
nervous  
policy  
Prof.  
purchased  
quote  
slippery  
supervision  
using  
you'd

STEP 10—73%

76%  
application  
brief  
Bro.  
choice  
compelled  
customer  
decide  
formerly  
hailed  
investigate  
investigation  
literary  
madam  
maintain  
mamma  
mere  
obligation  
operating  
operation  
pleasant

proposition  
refer  
regularly  
satisfaction  
transfer  
university  
75%  
allowed  
anxious  
assistant  
blizzard  
character  
Christian  
confer  
confidence  
crowded  
discontinued  
duplicate  
expense  
explanation  
favorably  
haste  
influence  
installed  
introduced  
journal  
largely  
organized  
registered  
relieve  
series  
signature  
sire  
strict  
surprised  
transit

74%  
advertising  
cedar  
combination  
development  
Dr.  
employer  
engineer  
envelope  
expensive  
frequently  
gravy  
honorable  
illustrating  
its  
merchandise  
pardon  
possibly  
remedy  
shipped  
submitted

suggested  
territory  
valuable  
vary  
wholesale  
worrying  
73%  
choosing  
commercial  
coupon  
cushion  
description  
enrollment  
fashionable  
government  
hers  
impression  
instrument  
issued  
Latin  
meant  
ninth  
orchestra  
previous  
profitable  
prosperous  
realizing  
receiving  
responsible  
type  
vicinity

72%  
accordance  
admission  
alfalfa  
announce  
applicant  
bargain  
based  
believing  
disagreeable  
disposal  
elsewhere  
examination  
examine  
extreme  
fortunate  
glorious  
illustration  
imagine  
majority  
medicine  
mental  
profession  
qualities  
really  
reference

respectfully  
salesman

71%  
assurance  
barely  
billed  
braid  
business  
confirming  
control  
democrat  
genuine  
identify  
personality  
principal  
reliability  
reservation  
satisfy  
senior  
strictly  
usually  
weren't

70%  
advancement  
alley  
altogether  
carrying  
contemplating  
contrary  
disgusted  
electrical  
entitled  
evidently  
furniture  
institute  
literature  
practice  
premium  
sincere  
splendid

STEP 11—66%

69%  
accordingly  
benefit  
candidate  
choir  
circumstances  
considerably  
doesn't  
equally  
equipment  
gradually  
invoice  
missed  
politics

presence  
 similar  
 stomach  
 terrible  
 various  
 68%  
 accomplished  
 available  
 estimated  
 label  
 niece  
 separate  
 successful  
 67%  
 advisable  
 appreciated  
 constitution  
 engineering  
 etc.  
 exceptional  
 instructor  
 patron  
 prosperity  
 substitute  
 welfare  
 66%  
 assignment  
 clothe  
 demonstrated  
 distribution  
 employee  
 magazine  
 mechanical  
 practical  
 preparation  
 subscription  
 succeed  
 sympathy  
 variety  
 65%  
 amendment  
 congratulation  
 data  
 exclusively  
 experience  
 illustrated  
 lose  
 prefer  
 resource  
 studying  
 succeeded  
 surplus  
 unusual  
 64%  
 associated  
 assortment

attitude  
 bass  
 capacity  
 coarse  
 corporation  
 electricity  
 executed  
 foreign  
 generally  
 inquiry  
 practicing  
 registration  
 renewal  
 stopped  
 63%  
 administration  
 assistance  
 auditor  
 awfully  
 basis  
 civics  
 confirm  
 congratulate  
 examiner  
 librarian  
 readily  
 timothy

## STEP 12—58%

62%  
 acknowledge  
 appearance  
 aren't  
 interfere  
 naturally  
 nickel  
 particularly  
 possession  
 semester  
 urge  
 61%  
 actually  
 additional  
 calendar  
 certificate  
 commission  
 co-operative  
 customary  
 exhausted  
 heretofore  
 inquiries  
 losing  
 ninety  
 organize  
 original

60%  
 absolutely  
 allotment  
 assigned  
 assume  
 attorney  
 beginning  
 conservatory  
 council  
 decision  
 demonstration  
 excellent  
 exhibit  
 inferior  
 organization  
 planned  
 response  
 safely  
 supervisor  
 59%  
 acquire  
 appreciation  
 co-operation  
 crochet  
 excitement  
 existing  
 inducement  
 planning  
 science  
 secretary  
 talent  
 58%  
 announcement  
 consequently  
 consultation  
 good-bye  
 individual  
 maturity  
 relieved  
 sense  
 57%  
 ballot  
 carnival  
 cordial  
 disappoint  
 grateful  
 legislation  
 remittance  
 specification  
 56%  
 administrator  
 appreciating  
 association  
 co-operating  
 crocheting  
 disease

meter  
 opportunity  
 probably  
 55%  
 acceptance  
 annual  
 catalogue  
 installment  
 official  
 practically

## STEP 13—50%

54%  
 athletics  
 completely  
 hastily  
 necessity  
 occasion  
 personally  
 preliminary  
 quantities  
 quantity  
 Sabbath  
 straightened  
 53%  
 advertisement  
 agricultural  
 bulletin  
 community  
 extension  
 geometry  
 merit  
 principle  
 52%  
 acquainted  
 alumni  
 ambitious  
 associate  
 client  
 compliment  
 cordially  
 correspond  
 referred  
 remembrance  
 superintendent  
 51%  
 arrangement  
 campaign  
 disappointment  
 enthusiastic  
 financial  
 girlie  
 permanent  
 50%  
 bureau  
 communication

regretting	44%	executive	38%	accompanying	29%
sincerely	assessment	originally		guarantee	
solicit	extremely				28%
thorough	leisure	STEP 15—34%		convenience	
49%	possess	37%		peculiarities	
enormous	thoroughly	analysis			27%
license	43%	equipped		chautauqua	
materially	accredited	fundamental		essential	
necessary	annually	mortgage		guaranteed	
physical	anticipate	36%		X-ray	
responsibility	circuit	fraternally			25%
48%	epidemic	unusually		recommendation	
all right	especially	55%		schedule	
ere	judgment	efficient			24%
exceptionally	notary	physician		appendicitis	
familiar	satisfactorily	34%		conveniently	
inconvenience	42%	affectionately		pneumonia	
merely	commissioner	33%			
possibility	correspondent	committee		STEP 17—21%	
professional	politician	correspondence			23%
receipt	41%	occasionally		anniversary	
47%	algebra	referring		grippe	
auntie	bonus	tuberculosis		rheumatism	
authority	continuous	32%			21%
definite	enthusiasm	accommodate		Hallowe'en	
soliciting	prior	anticipating			20%
46%	privilege	apparatus		definitely	
attendance	40%	characteristic		ingredients	
consequence	acquaintance	unnecessary			19%
disappointed	exhibition	31%		phosphorus	
immediately	immense	candidacy			
	59%	confirmation		STEP 18—16%	
STEP 14—42%	canvass	inst.			18%
45%	convenient	STEP 16—27%		affidavit	
immediate	courteous	30%			16%
rec'd	recommend	efficiency		zephyr	
especially	representative	lieutenant			
sufficient	scientific				
surgery	thesis				





**SECTION XV**  
**THE IOWA SPELLING SCALE**  
**GRADE VIII**

## GRADE VIII

### STEP 1—100%

able	body	dinner	herself
about	book	done	high
above	bottle	dream	hill
add	bought	dust	him
added	box	each	himself
adding	brick	earth	his
advance	bring	east	hog
afternoon	brother	easy	holding
again	bunch	eat	horse
age	but	edge	hot
ago	butter	eighty	house
all	by	end	hunt
alone	call	enjoy	hunting
along	called	eye	ill
am	calling	face	important
an	came	fail	in
and	camp	fall	inches
another	can	farm	ink
anything	car	farming	inside
apple	card	feet	into
are	care	few	is
army	cash	filled	it
around	cause	fine	job
art	cent	fire	July
as	child	fishing	June
ask	children	food	just
at	city	foot	keeping
away	class	form	kid
baby	clean	found	kind
back	clear	free	kinder
backing	close	from	lake
bad	coach	gained	land
ball	coal	get	large
band	cold	girl	last
bank	come	give	late
banking	contest	given	law
bat	corn	go	lay
bay	cost	going	leader
be	country	gone	left
because	cow	good	leg
been	cross	got	less
behind	cup	grade	let
being	dad	grain	letter
bell	danger	greater	life
belong	dare	had	like
below	darling	half	list
best	date	happy	little
better	day	has	live
big	December	hat	lived
bill	decline	have	liver
bird	deed	hay	lives
blank	degree	he	load
board	did	head	long
	died	help	look
		her	looking

love	partly	silk	thousand
low	payment	sit	three
mad	pen	six	time
mail	people	size	train
mailing	person	slow	treat
make	pie	small	tree
making	place	smart	trust
man	plate	snow	trusting
many	play	so	trying
market	pleased	soft	twenty
mate	poor	sold	under
may	power	somewhat	understand
me	prevented	sound	understanding
mean	put	spelling	up
membership	question	spend	use
message	rail	spent	value
milk	raised	spoke	waiting
mill	range	sport	walk
mine	read	stamp	wall
money	reader	start	wanted
more	ready	started	was
most	real	starting	wash
mother	reason	state	watch
move	red	stated	water
must	rent	station	way
my	report	stay	we
named	request	stick	well
nature	rest	still	were
nearly	return	stock	what
net	rich	stone	whatever
next	ride	stood	wheat
nice	rock	store	wheel
night	room	storm	when
nine	round	stranger	where
nobody	rug	study	while
noon	rule	subject	who
not	run	such	wife
note	rush	summer	will
nothing	said	sunshine	willing
object	sample	take	wind
office	Sat.	talk	wire
oil	saw	teach	wise
old	say	teaching	with
oldest	school	tell	without
on	see	telling	wood
once	seeing	ten	work
one	send	tent	worked
open	sending	test	worker
order	set	thank	working
out	setting	thanking	world
over	sheep	that	would
overcoat	ship	the	woven
own	shoe	them	wrote
pack	short	thing	year
page	should	think	yellow
painted	show	thinking	yes
paper	sick	this	yet

you  
yourself  
zone

**STEP 2—99%**

abstract  
account  
act  
action  
address  
after  
agent  
ahead  
air  
also  
amount  
answer  
any  
anybody  
anyhow  
April  
arm  
asking  
ate  
attend  
Aug.  
aunt  
awhile  
bake  
banker  
barn  
bottle  
bee  
before  
between  
black  
block  
blood  
blue  
boat  
booklet  
boss  
bother  
boxes  
boy  
brain  
branches  
bright  
bringing  
brush  
build  
built  
bushel  
cannot  
cap  
car

carry  
case  
catch  
cattle  
chain  
chair  
charge  
charged  
chart  
cheer  
church  
cities  
classes  
cleaned  
clothing  
club  
coat  
coffee  
coin  
company  
conduct  
contract  
cook  
correct  
could  
count  
court  
cover  
covering  
cream  
cut  
cutting  
dandy  
dark  
dead  
deal  
dealing  
dear  
debate  
deep  
delay  
depending  
discount  
display  
district  
dog  
doing  
down  
dress  
drew  
drill  
drop  
drug  
drum  
duty  
early  
earning

evening  
ever  
every  
exchange  
expected  
express  
fact  
factory  
failed  
far  
farmer  
fast  
faster  
father  
favor  
fear  
feed  
fell  
fellow  
fight  
figure  
file  
fill  
filling  
finding  
finish  
fish  
fit  
five  
flesh  
for  
force  
forgive  
formed  
fort  
Friday  
friend  
front  
gain  
gate  
gave  
gift  
glad  
glass  
glove  
goat  
gold  
goose  
green  
grew  
ground  
hair  
handed  
handy  
happen  
hard  
harder

hate  
heard  
heat  
heavy  
helping  
here  
history  
hit  
hold  
holder  
home  
hotel  
hour  
how  
however  
hundred  
hurry  
ice  
if  
inch  
instead  
instruction  
invite  
invited  
ivory  
Jan.  
January  
joy  
judge  
keep  
kill  
kindly  
king  
kiss  
know  
lace  
ladies  
lady  
landing  
larger  
learn  
learning  
leaving  
light  
located  
longer  
longest  
looked  
lost  
lot  
loved  
lovely  
lower  
luck  
lump  
lunch  
made

mailed	playing	settlement	they
maker	please	seven	thin
mark	pleasure	seventy	third
married	pocket	several	those
master	point	shade	thought
match	present	shall	thus
matter	press	shame	ticket
Monday	print	share	tip
mostly	printed	she	to-day
mountain	printer	shut	told
mouth	produce	sickness	took
Mr.	product	silver	top
much	protest	simple	town
mud	provided	sin	township
music	pull	sir	toy
myself	pure	sister	trade
name	quart	sixty	trip
nation	quick	skate	trunk
near	railroad	sleep	try
never	rain	slip	two
new	raise	smaller	unable
nicely	rate	snowing	union
normal	raw	soil	unless
north	reach	some	us
nose	reading	something	used
notice	reduced	sometime	valued
Nov.	reduction	son	wagon
number	remain	song	waited
nut	removed	soon	wake
oats	rented	sooner	walked
Oct.	renting	space	want
of	repeat	spell	wanting
off	reply	spot	war
only	result	spring	warm
outside	rice	square	washing
oven	ring	stage	watching
overlooked	river	stamped	went
packing	rolling	stand	western
paint	roof	standing	white
painting	rubber	staying	why
papa	running	stove	wild
park	rust	strongest	win
part	sack	stunt	window
party	safe	sugar	winter
pass	same	Sunday	wish
patch	sand	sweet	wished
pay	sat	swell	wishes
peace	score	table	wishing
peach	seat	taken	within
personal	second	talking	word
phone	secure	tank	worth
pick	seed	teacher	wrong
picking	self	teeth	yard
picture	sell	tenth	yesterday
pig	selling	than	your
pine	sent	then	zero
placed			

**STEP 3—98%**

acre	chicken	feeling	lift
acted	chum	felt	liked
acting	cleaner	fifty	listed
active	cleaning	first	living
actor	clearly	fixed	loaded
against	clerk	flat	local
aid	closed	flower	locate
alive	cloth	forget	location
among	coast	former	loud
answered	colder	four	lung
answering	colt	frame	machine
anyone	condition	French	maid
anywhere	construction	frost	maple
aside	contain	fruit	March
asleep	continue	fur	marking
auto	cooking	furnish	May
aware	cool	gather	meal
backed	cord	germ	meantime
basket	corrected	grant	measure
bean	cottage	granted	meat
bed	cotton	grass	meet
began	counting	greatest	method
begun	crop	growing	middle
behalf	daily	hand	might
belonging	damage	hang	mighty
belt	damp	hardly	mind
bench	dance	hardware	Miss
beside	daughter	health	mistake
Bible	dealer	heap	month
birthday	debt	hear	monthly
blame	Dec.	heating	morning
born	delighted	held	moved
branch	depend	herewith	neck
bridge	deportment	highest	news
broke	die	hole	noise
broken	direct	honest	none
brought	do	idea	noted
building	don't	improved	November
burn	door	income	now
buy	draft	inform	offering
buying	dresser	iron	older
cake	drive	island	orange
calf	egg	jar	other
careful	eight	jump	our
carpet	eighteen	jury	ours
cat	else	kindness	package
caused	English	kitten	parties
center	entire	lamp	paying
chance	even	lame	per
change	everything	largest	pillow
changed	example	laugh	pink
chapter	excuse	learned	plenty
charming	expecting	leather	popular
cheap	extend	leave	post
check	family	leaves	posted
	fat	lesson	pound
	feeding	liberty	pretty

prevented	spending	STEP 4—96%	duties
price	steam	97%	ease
printing	step	advanced	education
prize	stop	adventure	elected
production	street	advise	election
promise	strongly	afterward	eleventh
proper	student	agree	enough
property	sum	aim	entered
proud	sun	almost	eve
provide	supper	already	everyone
queen	taxes	ample	excited
race	tested	animal	expert
reached	thereafter	ans.	extent
reaches	thick	appointed	extra
reaching	thirty	base	factor
recall	thread	beat	failure
record	tile	beauty	Feb.
recover	till	beg	female
refuse	tire	begin	fence
regular	ton	bet	film
regulation	topic	blessed	find
relation	trained	blew	finished
remark	travel	blow	folder
remove	treated	bluff	follow
renter	treatment	boiler	forest
repair	true	both	fortune
require	turkey	brand	freeze
reserve	twelve	bugs	fully
respect	twice	builder	fun
respond	understood	button	funny
retail	upon	buyer	furnished
road	valley	calm	gaining
rushed	very	carried	garden
sad	visit	cast	gentleman
sale	vote	cheaper	glasses
saying	voter	checked	glee
season	walking	chill	gotten
section	washed	chop	gown
seen	watched	clay	grand
Sept.	weak	clock	grandfather
September	week	composition	great
seventh	welcome	consider	greatly
shop	west	conversation	hall
shot	wet	crib	handle
showed	whenever	cure	having
side	whereby	dated	hearing
sight	which	dearly	improve
sign	wide	deeply	included
simply	witch	deliver	increase
singing	wonder	depot	inquire
snap	worm	devoted	insist
snowed	worse	direction	inspect
somewhere	write	dodge	instruct
sort	yearly	dose	interest
south	young	dressed	introduced
speed		drilling	issue
		during	itself



I've	requested	beaten	general
joined	required	became	gladly
kitchen	resident	become	gland
knowing	retain	beyond	goldfish
labor	returned	bid	greeting
leaf	right	bigger	harvest
least	rod	birth	helped
lecture	saved	brown	hereafter
letting	scale	buggy	homesick
lone	settle	burden	homestead
lonesome	shed	busy	hoped
lumber	sheet	cared	hurt
meeting	shipment	carrier	ideal
member	shortly	caught	illness
mend	single	cigar	indeed
miss	sink	circus	industry
moment	sixth	closer	information
movement	slipper	collect	inviting
need	sorry	collection	joke
needed	speak	color	kept
needle	special	comfort	killed
nerve	spread	companion	known
obtain	stair	connect	language
October	stories	constant	later
opened	stuff	copy	length
or	suffering	correctly	level
otherwise	couple	couple	likewise
outfit	tie	cousin	limited
packed	tired	covered	lowest
pain	to	dearest	lucky
passing	total	death	ma
payable	trace	demand	manage
pencil	trouble	desire	mass
per cent	turn	directly	minister
perfect	turned	dispose	minute
pin	united	does	moderate
plain	velvet	dollar	narrow
plan	visiting	dread	nearer
planted	whom	enclose	neat
poorly	withdraw	enjoying	neglected
post card	wonderful	entering	nor
potatoes	wool	everybody	nurse
prefer	youth	expressed	odd
problem		extended	officer
progress	96%	federation	ordering
prospect	according	field	ourselves
pump	addition	fifth	owe
putting	addresses	finest	owner
rack	advantage	flavor	pair
rainy	always	floor	particular
ranch	appeal	forgot	pavement
rank	appear	foundation	period
recess	appeared	frankly	phoned
reduce	apply	froze	porch
remind	attended	fund	postage
render	average	gallon	prepare
reputation	barrel	game	president
	bear		

pride	STEP 5—94%	farther	owned
primary		feature	painter
prompt	95%	feeder	pearl
properly	absence	feel	pending
public	accept	fifteen	performed
rained	adjust	final	perhaps
raining	advised	fix	piano
rapid	afraid	flour	played
refused	allow	football	possible
relative	amounting	fourteen	postal
remained	anyway	friendly	presented
remember	approved	frozen	produced
reported	arrived	furnishing	program
resulting	asked	future	promptly
rip	August	garage	protected
rose	awaiting	gas	proven
seal	barley	geography	providing
seem	beef	getting	published
serve	beet	globe	pupil
served	breakfast	graduate	quickly
settled	broad	grandma	raising
shape	cane	grit	recovered
shock	cement	guess	regret
signed	central	ha	relationship
since	checking	habit	rendered
sock	Christmas	honor	renew
soldier	circular	hurried	returning
someone	climate	husband	ribbon
sorrow	coasting	I'll	sash
speaker	commerce	include	saving
steel	common	including	says
strike	complete	intended	scout
suit	concluded	interested	search
system	connected	investment	service
talked	connecting	join	serving
team	contained	joyful	shipping
territory	content	kisses	skirt
text	corner	knew	sleet
thankful	crazy	knot	soap
there	credit	limb	steady
these	delivered	lodge	supplies
Thursday	deserve	loyal	supply
tiny	desired	manner	support
to-night	dirty	mister	supposed
towel	doctor	moral	sure
training	domestic	Mrs.	sweater
trial	dwelling	musical	taking
Tuesday	elect	national	temple
until	entertain	neighbor	their
upper	establish	newspaper	themselves
vision	exact	northern	though
weary	except	noticed	throat
wedding	explain	notion	through
weekly	factories	obtained	throughout
won	fair	ocean	title
worst	famous	offered	track
yourselves	fancy	oh	tract

transportation  
tread  
uniform  
visited  
voice  
waist  
woman  
written

94%

absolute  
advising  
afloat  
although  
artist  
ashamed  
assembly  
assist  
Ave.  
avenue  
badly  
balance  
bite  
bottom  
bulk  
candle  
can't  
carefully  
cashier  
certain  
chairman  
changing  
cheerful  
citizen  
complaint  
connection  
consideration  
convention  
cough  
county  
curtain  
dancing  
dangerous  
debating  
democratic  
dice  
difference  
difficult  
directed  
due  
extensive  
fairly  
fare  
fault  
favorable  
fee  
figured

foolish  
fuel  
garment  
gentlemen  
gray  
grind  
grove  
guide  
hen  
higher  
household  
human  
importance  
increasing  
informed  
inspector  
intend  
interesting  
junk  
liberal  
lie  
lighting  
likely  
listen  
lovely  
maintain  
model  
moving  
natural  
no  
outlined  
permit  
pertaining  
pole  
powder  
preacher  
priced  
process  
promotion  
prove  
publisher  
quality  
quite  
rapidly  
reception  
refreshment  
register  
replying  
rough  
row  
rye  
satisfaction  
scarce  
shopping  
silence  
sore  
spare

spirit  
standard  
statement  
strength  
studies  
substitute  
success  
supplied  
tanning  
tax  
term  
thereof  
vacation  
wait  
wear  
winner  
worthy  
Xmas.

STEP 6—92%

95%

adjustment  
anxious  
apart  
application  
arrive  
assured  
attached  
attain  
attempt  
attending  
avoid  
boarding  
booth  
clever  
cloudy  
concert  
confined  
consist  
containing  
correction  
decrease  
design  
didn't  
division  
dreadful  
enclosed  
encourage  
entirely  
exam.  
expired  
fashion  
fashionable  
favored  
federal  
fever

finger  
fitted  
folk  
funeral  
furnace  
gasoline  
group  
hence  
holiday  
honestly  
humor  
improving  
institute  
international  
introduction  
ironing  
justified  
justify  
kindest  
latest  
liable  
limit  
loving  
main  
manager  
modern  
nap  
neglect  
nevertheless  
notify  
opening  
organ  
pa  
penny  
plainly  
pools  
prepaid  
private  
proceed  
proved  
quiet  
quotation  
recite  
refund  
regardless  
reliable  
requesting  
scrap  
seemed  
server  
sire  
situation  
skating  
slide  
smooth  
struck  
struggle

style  
subscriber  
suitable  
surface  
taste  
taught  
telephone  
tend  
therefore  
throw  
tight  
touch  
tried  
uncle  
unpaid  
useful  
wasn't  
weather  
weight  
whole  
wholesale  
whose  
women  
wondering  
worry  
you'll

92%

ability  
absent  
accomplish  
adjusted  
advancement  
appointment  
article  
attention  
author  
await  
break  
breaking  
butcher  
capable  
captain  
chief  
closely  
closing  
considerable  
considering  
constitution  
cooler  
crippled  
delayed  
delightful  
detail  
director  
discover  
disposed  
dozen

eager  
employed  
enjoyed  
enter  
entitle  
evidence  
excess  
expensive  
explaining  
followed  
forced  
forgotten  
forth  
fullest  
government  
grammar  
headache  
healthy  
hello  
hereby  
housekeeping  
I'd  
inclined  
increased  
indicate  
instance  
instant  
instructed  
instructor  
invitation  
lbs.  
linen  
mental  
merry  
met  
obligation  
parent  
parlor  
pastor  
piece  
placing  
policy  
prepared  
presume  
prevail  
previous  
promised  
quarter  
quit  
rabbit  
recent  
regard  
represent  
roll  
route  
ruin  
saddle

salary  
secured  
seldom  
seller  
serious  
social  
submit  
Thanksgiving  
tickled  
traveling  
wage  
wearing  
Wednesday  
workmanship

91%

adopted  
affair  
agriculture  
ambition  
applied  
attraction  
baking  
believe  
biggest  
bit  
blackberries  
bowl  
cabinet  
certainly  
cherries  
choice  
circulation  
concern  
creamery  
creep  
crew  
different  
drama  
effort  
enroll  
explained  
firm  
ford  
German  
glorious  
graduation  
grocery  
handled  
handling  
herein  
improvement  
inclose  
internal  
invoice  
legal  
loan

machinery  
majority  
material  
mention  
million  
needing  
neither  
notified  
oversight  
parcel  
perfectly  
position  
purchase  
purpose  
responsible  
sanitary  
sew  
sis  
stayed  
to-morrow  
valuable  
we'll

STEP 7—88%

90%

actual  
addressed  
admit  
arrange  
blizzard  
blooming  
college  
combination  
comfortable  
conclusion  
confidence  
considered  
copies  
courage  
coy  
cute  
decided  
discontinued  
doubt  
doubtless  
either  
employer  
established  
estimated  
examined  
expense  
expression  
favorite  
fierce  
following  
forward

frequently  
fresh  
gee  
grown  
guest  
helpful  
I'm  
impression  
inclosed  
insurance  
involved  
issued  
item  
largely  
lately  
liquid  
loss  
madam  
manual  
nephew  
nineteen  
oblige  
o'clock  
ordered  
post office  
preparing  
proposition  
publication  
purchased  
realize  
recently  
remembered  
remembering  
renewed  
representation  
represented  
riding  
rural  
securing  
select  
selection  
series  
shipper  
slept  
slight  
slightly  
splendid  
suggest  
treasurer  
university  
vacant  
violin

89%

accident  
across  
activity  
agreeable

agreed  
argument  
arrival  
arriving  
banquet  
billed  
cedar  
choose  
circumstances  
collar  
colored  
continued  
dairy  
deliveries  
delivery  
discourage  
entertaining  
error  
exactly  
fourth  
freight  
generous  
gradually  
graze  
grip  
happened  
hesitate  
independent  
insert  
installed  
investigate  
laid  
mentioned  
numerous  
opera  
ordinary  
past  
pattern  
personality  
picnic  
plum  
possibly  
practice  
profitable  
queer  
reasonable  
satisfactory  
saver  
selected  
shown  
stating  
strawberries  
suggested  
supervision  
that's  
type  
volume

weigh  
won't  
writing

88%

ache  
ankle  
approval  
assure  
assuring  
attorney  
automatic  
automobile  
braid  
Bro.  
cartoon  
celebrate  
coming  
commercial  
comply  
contrary  
credited  
current  
decide  
deposit  
deserved  
disposal  
durable  
earnest  
engineer  
exciting  
exercise  
fern  
fortunate  
forty  
forwarding  
friendship  
further  
ghost  
growth  
hare  
headquarter  
identify  
impossible  
inasmuch  
latter  
manufacture  
misunderstanding  
occupied  
plow  
prayer  
procured  
profit  
proof  
qualities  
quoted  
received  
reference

respectfully  
rifle  
Saturday  
sewing  
sitting  
society  
source  
studied  
submitted  
surplus  
view  
waste  
weighed

87%

accordingly  
announce  
arranged  
attach  
booster  
calves  
canned  
cellar  
character  
collecting  
commence  
conference  
convince  
course  
data  
destination  
earliest  
enclosing  
fitting  
generally  
gratitude  
hadn't  
happiness  
haste  
hospital  
illustrated  
institution  
intention  
investigation  
junior  
knowledge  
misses  
namely  
ought  
owing  
realizing  
regarding  
registered  
remedy  
remit  
republican  
salesman  
sincere

slippery  
superior  
telegram  
toward  
universal  
urge  
weren't  
we've  
worried  
yoke  
you'd

STEP 8—84%

86%

accordance  
ambitious  
bracelet  
carrying  
companies  
customer  
democrat  
description  
development  
easily  
effect  
entry  
equally  
examine  
exception  
finally  
forwarded  
handkerchief  
honorable  
inclosing  
lovingly  
medicine  
missed  
obliged  
Prof.  
really  
receive  
reservation  
resigned  
straight  
strict  
using  
usual  
voting  
wouldn't

85%

auditor  
brief  
chose  
concerning  
contemplating  
cordial

crowded  
examination  
fabric  
furniture  
hustling  
influence  
journal  
library  
loose  
neighborhood  
politics  
positive  
premium  
quote  
senior  
shipped  
shoulder  
signature  
stationary  
strictly  
surprise  
terrible  
truly  
utmost  
whether

84%

advice  
allowed  
attractive  
authorized  
bog  
capital  
confident  
couldn't  
described  
destroyed  
etc.  
experience  
foreign  
heir  
illustrating  
instrument  
Latin  
literary  
meant  
operation  
opinion  
pardon  
patent  
patient  
possession  
prosperity  
satisfy  
stomach  
tattooing  
transit

83%

acknowledge  
administration  
advertise  
association  
awful  
business  
channel  
compelled  
contemplated  
crocheting  
desiring  
enrolled  
entertainment  
envelope  
favorably  
filing  
gray  
management  
organize  
organized  
profession  
raiser  
refer  
satisfied  
secretary  
stopped  
studying  
theater  
together  
too  
vicinity  
writer

82%

accomplished  
additional  
agency  
altogether  
annual  
assortment  
attitude  
available  
beginning  
crowd  
develop  
difficulty  
disagreeable  
electrical  
elsewhere  
engineering  
entitled  
evidently  
existing  
figuring  
handsome  
hoping

illustration  
manufacturing  
official  
operated  
operating  
subscription  
transfer  
various

STEP 9—79%

81%

acceptance  
acquire  
choosing  
constantly  
convinced  
daddy  
dependent  
duplicate  
examiner  
February  
graduating  
individual  
its  
lining  
lose  
merchandise  
particularly  
science  
timothy

80%

admission  
associated  
assume  
assurance  
commission  
confer  
congratulation  
decision  
enormous  
enrollment  
equipment  
exceptional  
exhibit  
explanation  
extreme  
forenoon  
genuine  
hasn't  
hailed  
isn't  
jobber  
label  
nervous  
patron

practical  
regularly  
responsibility  
succeed  
supervisor

79%

appreciate  
assistance  
ballot  
bass  
candidate  
certificate  
Christian  
civics  
distribution  
executed  
hers  
inducement  
legislation  
magazine  
maturity  
maybe  
principal  
readily  
registration  
unusual

78%

advertised  
appreciated  
assigned  
assistant  
bargain  
believing  
clothe  
confirm  
control  
cushion  
formerly  
interfere  
pleasant  
relieve  
resource  
surprised  
talent

worrying

77%

actually  
consequently  
correspond  
coupon  
crochet  
demonstrated  
demonstration  
disgusted  
haven't  
imagine

mamma  
ninety  
organization  
prosperous  
successful  
sympathy

STEP 10—73%

76%

applicant  
electricity  
excitement  
familiar  
heretofore  
immediate  
merely  
orchestra  
physical  
planned  
preparation  
presence  
receiving  
relieved  
requirement  
similar  
variety  
vary

75%

advisable  
algebra  
associate  
awfully  
carnival  
co-operation  
disease  
Dr.  
employee  
mere  
naturally  
necessity  
sense  
Tues.  
welfare

74%

advertising  
alfalfa  
appreciating  
basis  
benefit  
campaign  
catalogue  
congratulate  
consequence  
conservatory  
especially

excellent  
exclusively  
merit  
necessary  
quantity  
reliability  
response  
separate

73%

aren't  
choir  
commissioner  
committee  
co-operative  
extension  
inquiry  
meter  
ninth  
possibility  
practicing  
renewal  
safety  
straightened  
succeeded

72%

agricultural  
alley  
appearance  
capacity  
community  
confirming  
corporation  
notary  
usually

71%

administrator  
amendment  
attendance  
coarse  
compliment  
cordially  
customary  
installment  
niece  
soliciting  
surgery

70%

advertisement  
appreciation  
arrangement  
assignment  
based  
bureau  
considerably  
convenience

exhibition  
hastily  
original  
preliminary  
specification

STEP 11—66%

69%

acquainted  
correspondent  
disappointed  
epidemic  
inferior  
license  
sincerely  
specially

68%

athletics  
doesn't  
exceptionally  
mechanical  
occasion  
passed  
probably

67%

allotment  
announcement  
authority  
bonus  
definite  
efficient  
essential  
exhausted  
librarian  
nickel  
personally  
planning  
professional  
regretting  
remittance  
sufficient

66%

absolutely  
consultation  
ere  
good-bye  
quantities  
receipt  
unnecessary

65%

barely  
communication  
completely  
executive

extremely	59%	pneumonia	43%
financial	enthusiastic	referred	guarantee
inquiries	lieutenant		rheumatism
literature	unusually	52%	42%
representative	58%	satisfactorily	appendicitis
64%	all right	51%	Hallowe'en
calendar	alumni	bulletin	41%
leisure	anticipate	disappointment	conveniently
opportunity	assessment	grateful	enthusiasm
solicit	candidacy	referring	guaranteed
63%	continuous	50%	occasionally
annually	fundamental	apparatus	39%
practically	geometry	co-operating	accommodate
semester	girlie	inconvenience	peculiarities
superintendent	physician	judgment	38%
	possess	rec'd	schedule
	thorough	49%	
STEP 12—58%	57%	efficiency	STEP 15—34%
62%	thoroughly	inst.	37%
client	56%	remembrance	definitely
convenient	accompanying	48%	fraternally
council	acquaintance	grippe	35%
immense	auntie	prior	anniversary
permanent	originally	47%	34%
principle	recommendation	affectionately	zephyr
61%	55%	46%	33%
accredited	anticipating	politician	chautauqua
characteristic	circuit	tuberculosis	X-ray
courteous	disappoint		31%
losing	equipped	STEP 14—42%	canvass
scientific	immediately	45%	
60%	STEP 13—50%	affidavit	STEP 16—27%
analysis	54%	44%	28%
correspondence	confirmation	ingredients	phosphorus
mortgage	materially	privilege	
Sabbath	recommend		
	thesis		





## **APPENDIX**

**EXHIBIT A**

Set I, list 1 illustrates the form in which words were sent to the various schools.

**Iowa Spelling List—1-1**

1 and	26 recently	51 fraternally	76 attractive
2 me	27 pupil	52 broke	77 management
3 some	28 correct	53 cake	78 toy
4 think	29 walk	54 blood	79 singing
5 say	30 Dr.	55 renewal	80 forenoon
6 each	31 happen	56 confident	81 durable
7 way	32 top	57 colored	82 per cent
8 great	33 window	58 roll	83 kitten
9 put	34 shipping	59 clock	84 plow
10 picture	35 wife	60 forced	85 faster
11 market	36 standard	61 outfit	86 breaking
12 folk	37 printed	62 thorough	87 brand
13 real	38 fifty	63 waste	88 soap
14 sorry	39 cream	64 grown	89 calendar
15 leave	40 recommend	65 stick	90 anniversary
16 aunt	41 prior	66 deep	91 extreme
17 credit	42 crowd	67 organized	92 possess
18 supply	43 forwarded	68 exceptional	93 kinder
19 street	44 cool	69 weigh	94 slept
20 profit	45 rush	70 applicant	95 dice
21 begin	46 represented	71 porch	96 federal
22 net	47 publication	72 staying	97 insert
23 May	48 blow	73 instructed	98 likewise
24 brought	49 fixed	74 slightly	99 identify
25 Oct.	50 newspaper	75 tie	100 daddy

**EXHIBIT B**

Instructions sent with spelling material to all cooperating teachers.

**INSTRUCTIONS TO TEACHERS**

This work is a part of a state wide effort to grade a list of most commonly used words. The success of the work will depend upon the accuracy with which you and all other teachers follow these directions.

Please have your pupils spell one list each day; 100 words if you are teaching grades V to VIII and 50 words if you are teaching grades II, III or IV. Pronounce each word distinctly and make sure that each child understands the word. Give a short illustrative sentence in all cases where different words have the same or similar pronunciation. The words are to be given without previous study or drill of any kind. Give plenty of time but no assistance.

Have the work done with pencil, on paper of uniform size, writing two columns on a page but do **not** write on both sides of the paper. The child should write his name, sex, age, and grade and the name of his school and city at the top of **each** sheet. Pronounce the words in order numbered and have the pupils number the words as they write them. This is very important.

Impress upon the children that in case of an error, they are to draw a line through the word and write it correctly above or beside the misspelled word. Words in which one letter has been written over another will be counted wrong, as it is almost impossible to know which was the child's final decision on the spelling.

It is recognized that in the lower grades many of these words are quite unfamiliar to the children and that a large proportion of the pupils will not be able to spell most of the words in the list. The only way, however, to find out what words the children can spell and what words they cannot spell is to give them the opportunity to attempt to spell all the words. Keep them just as happy in the effort as possible by telling them that other boys and girls of the same grade are trying to spell the same words in other schools in Iowa. If you are teaching in grade II or III, it will probably be better to pronounce 25 words in the forenoon and 25 in the afternoon than to give all 50 at once.

If your pupils are in grades VI, VII, or VIII, will you please assist in the scoring by having a few of the stronger pupils detailed each day to check the papers of all members of the class. Caution them that they are not to mark the word in any way but only make a cross through the number of the word which is misspelled. Four children can correct the papers for a room in twenty to thirty minutes and you will doubtless have no difficulty in finding some of the pupils who will very gladly do this.

The papers are to be collected each day and tied together. At the end of the ten days, the ten bunches of papers which represent the ten days' spelling of the pupils in your room, are to be sent tied in a single package to your superintendent. He will then forward these papers with all others from your city to the Extension Division. The Extension Division will score the papers from the lower grades and tabulate the spellings from all contributing schools and return the results to your Superintendent.

To the extent that these instructions are carefully followed and your cooperation secured will the results be of value to all the schools of the state. Please give the work your best effort but do not attempt to improve the spelling of the children of your room on these words by assisting them in their spelling in any way.

**EXHIBIT C****Cities Co-operating in Spelling Study**

Adair	Denison	Lake View	Oskaloosa
Algona	Dunlap	Lansing	Ottumwa
Ames	Eddyville	La Porte City	Pella
Belle Plaine	Eldon	Le Mars	Pocahontas
Belmond	Fairfield	Lineville	Postville
Bloomfield	Glenwood	Manilla	Red Oak
Bonaparte	Grinnell	Manson	Reinbeck
Boone	Griswold	Marengo	Remsen
Britt	Guttenburg	Marshalltown	Rockford
Buffalo Center	Hampton	Montezuma	Rockwell City
Burlington	Hartley	Monticello	Rolfe
Carroll	Hawarden	Moulton	Sheldon
Casey	Hopkinton	Muscatine	Sidney
Centerville	Humboldt	Nashua	Sigourney
Chariton	Humeston	Nevada	Sioux Center
Charles City	Ida Grove	New Hampton	Spirit Lake
Cherokee	Independence	New London	State Center
Clarinda	Inwood	New Sharon	Stuart
Clarion	Iowa City	Newton	Toledo
Clinton	Jewell	Northwood	Waterloo, E.
Corning	Keokuk	Oakland	Waukon
Corydon	Keosauqua	Oelwein	What Cheer
Council Bluffs	Kingsley	Orange City	Williamsburg
Cresco	Knoxville	Osage	Woodbine
Davenport	Lake Mills		









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